

CHELSEA  
SILVER LINE GATEWAY

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	6	346
PROJECT FILE NO.		604428	

TYPICAL SECTIONS

PAVEMENT NOTES:

PROPOSED FULL DEPTH PAVEMENT - BUSWAY

SURFACE: 1 1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER  
2 1/4" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0) OVER  
2 1/4" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)

BASE: 4 1/2" SUPERPAVE BASE COURSE 37.5 (SBC-37.5)  
SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER  
8" GRAVEL BORROW, TYPE B

PROPOSED CEMENT CONCRETE PAVEMENT - BUSWAY

SURFACE: 10" CEMENT CONCRETE PAVEMENT (5000 PSI)  
SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER  
8" GRAVEL BORROW, TYPE B

PROPOSED MILL & OVERLAY

PAVEMENT MILLING: 1 1/2"  
PAVEMENT OVERLAY: 1 1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)

PROPOSED CEMENT CONCRETE WALK/ WHEELCHAIR RAMP

SURFACE: 4" CEMENT CONCRETE PAVEMENT  
FOUNDATION: 8" GRAVEL BORROW, TYPE B

PROPOSED HMA PARKING LOT

SURFACE: 1 1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER  
2 1/2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)  
FOUNDATION: 8" GRAVEL BORROW, TYPE B

PROPOSED FULL DEPTH SHARED-USE PATH PAVEMENT

SURFACE: 1 1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)  
INTERMEDIATE: 2 1/2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)  
SUBBASE: 8" (MIN) GRAVEL BORROW, TYPE B

PROPOSED FULL DEPTH DRIVEWAY

SURFACE: 6" CEMENT CONCRETE PAVEMENT  
FOUNDATION: 8" (MIN) GRAVEL BORROW, TYPE B

PROPOSED BRT PLATFORM

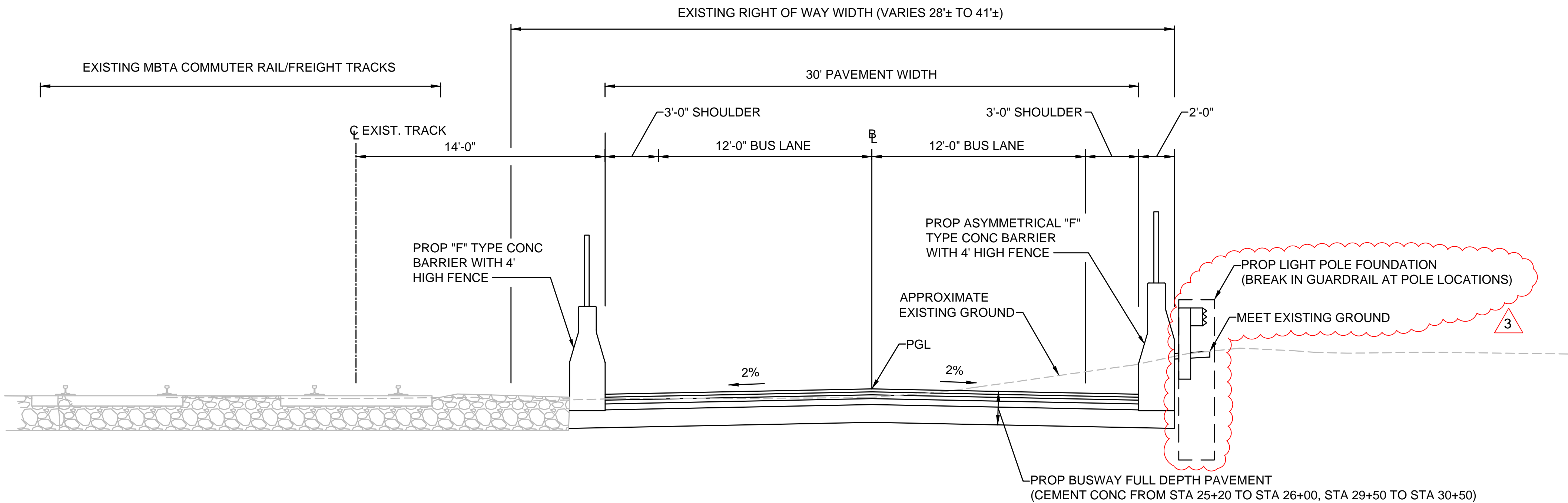
SURFACE: 8" CEMENT CONCRETE PAVEMENT  
FOUNDATION: 8" GRAVEL BORROW, TYPE B

PROPOSED GRANITE CURB

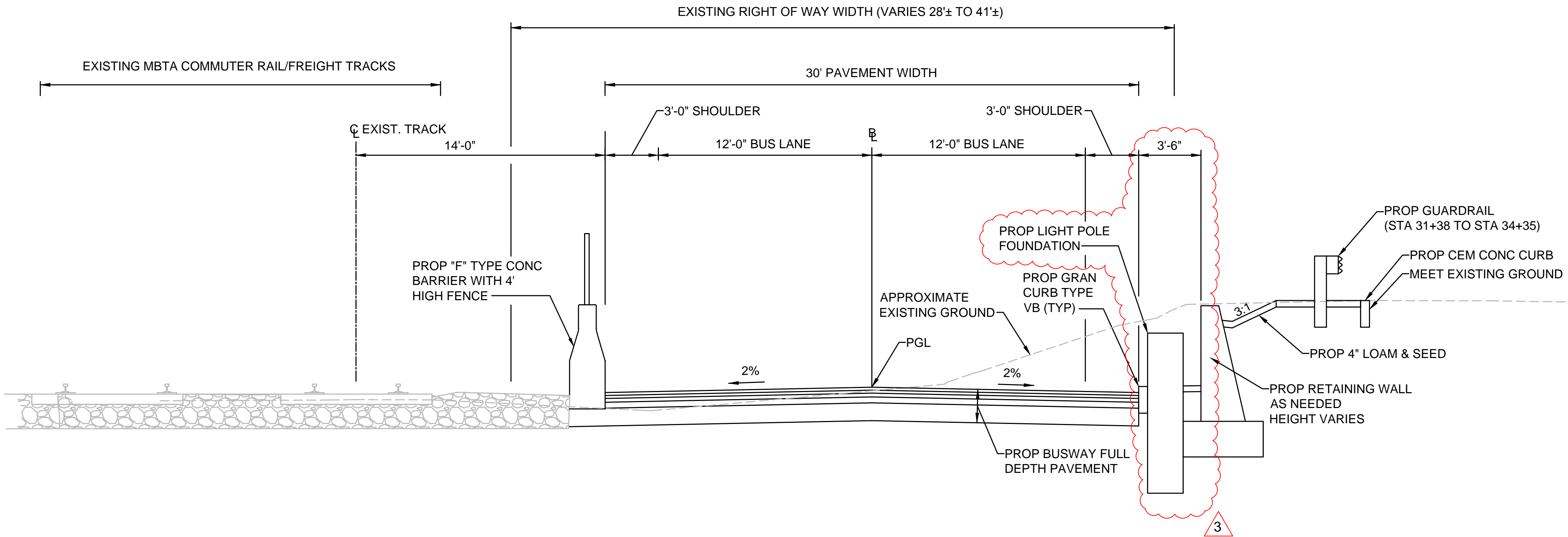
GRANITE CURB TO HAVE 6" REVEAL (TYPICAL) EXCEPT 11" REVEAL AT BRT PLATFORMS AT BOX DISTRICT & CHELSEA CENTER AND 8" REVEAL AT BRT PLATFORMS AT EASTERN AVE & MYSTIC MALL.

NOTES:

- ALL SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) AND UPPERMOST INTERMEDIATE COURSE - 19.0 (SIC 19.0) SHALL BE LATEX MODIFIED AND/OR SHALL MEET A MINIMUM PG GRADING OF 70-22.
- ALL SUPERPAVE MIXTURES SHALL BE PRODUCED USING ITEM 456. WARM MIX ASPHALT. A WARM MIX ASPHALT (WMA) TECHNOLOGY THAT IS ON THE NEAUPG QUALIFIED PRODUCTS LIST AND THAT COMPLIES WITH MASSDOT WMA SPECIAL PROVISIONS.
- ASPHALT EMULSION FOR TACK COAT SHALL BE SPRAY APPLIED FOR DOUBLE OVERLAP COVERAGE (RS-1) AT 0.07 GAL/SY OVER MICRO-MILLED SURFACES AND 0.05 GAL/SY OVER SMOOTH SURFACES PRIOR TO PAVING.
- EXISTING SUBBASE MATERIAL MEETING MATERIAL SPECIFICATION M1.03.0 GRAVEL BORROW, TYPE B SHALL BE RETAINED. EXISTING SUBBASE NOT CONFORMING TO THE MATERIAL SPECIFICATION M1.03.0 GRAVEL BORROW, TYPE B SHALL BE REMOVED TO THE REQUIRED DEPTH AND REPLACED WITH GRAVEL BORROW, TYPE B.
- ALL HOT MIX ASPHALT DRIVEWAYS SHALL BE ESTIMATED AND PAID FOR UNDER ITEM 703 OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGE.
- TEMPORARY CONSTRUCTION SHALL USE SUPERPAVE HOT MIX ASPHALT MIXTURES AND MAY NOT BE SUBJECT TO THE SAME SAMPLING AND TESTING REQUIRED FOR PERMANENT CONSTRUCTION



30' BUSWAY SECTION ADJACENT TO ACTIVE RAILROAD  
STA 25+20 TO STA 29+80  
NTS



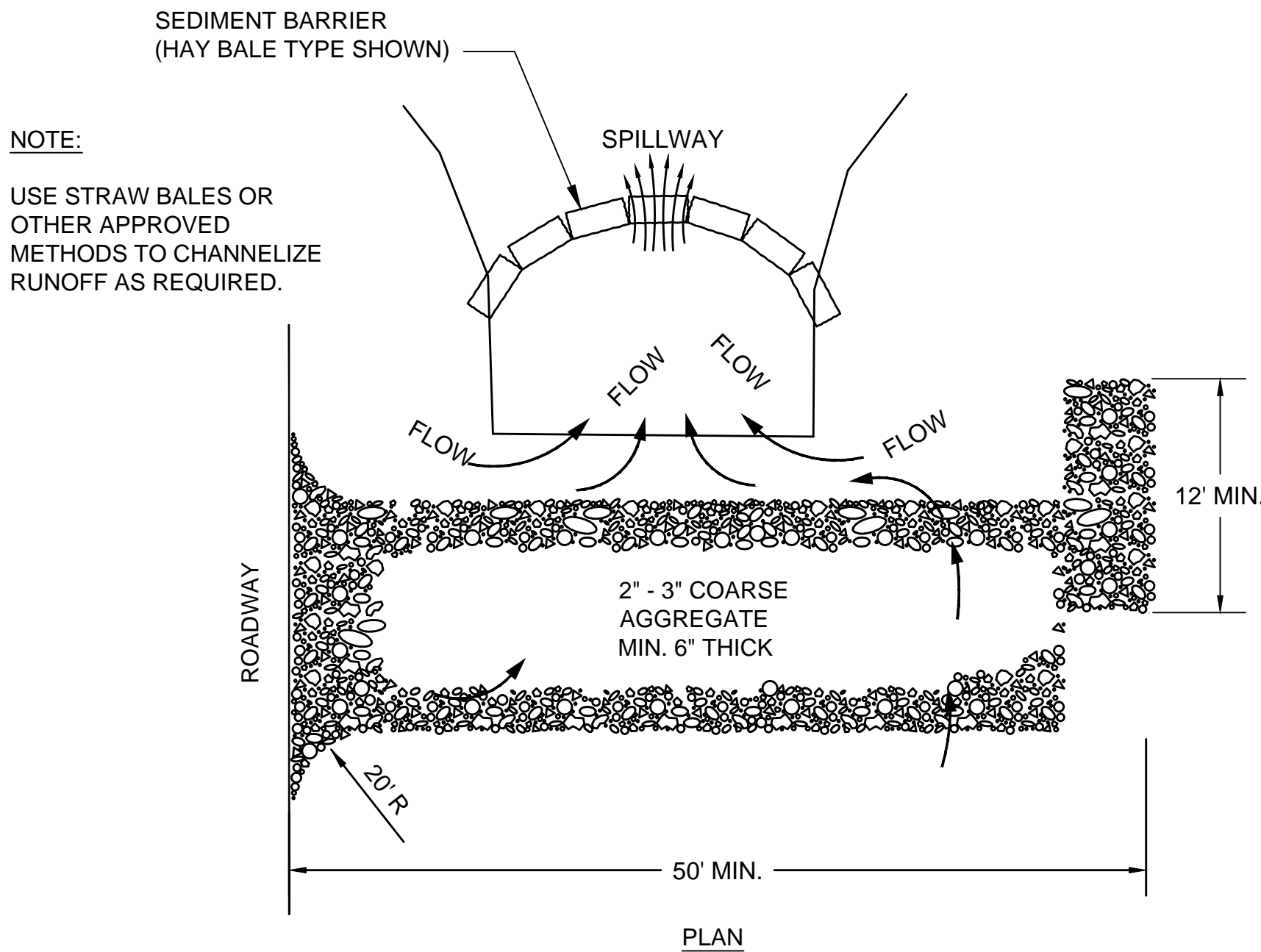
30' BUSWAY SECTION ADJACENT TO ACTIVE RAILROAD  
STA 32+53 TO STA 35+35  
NTS



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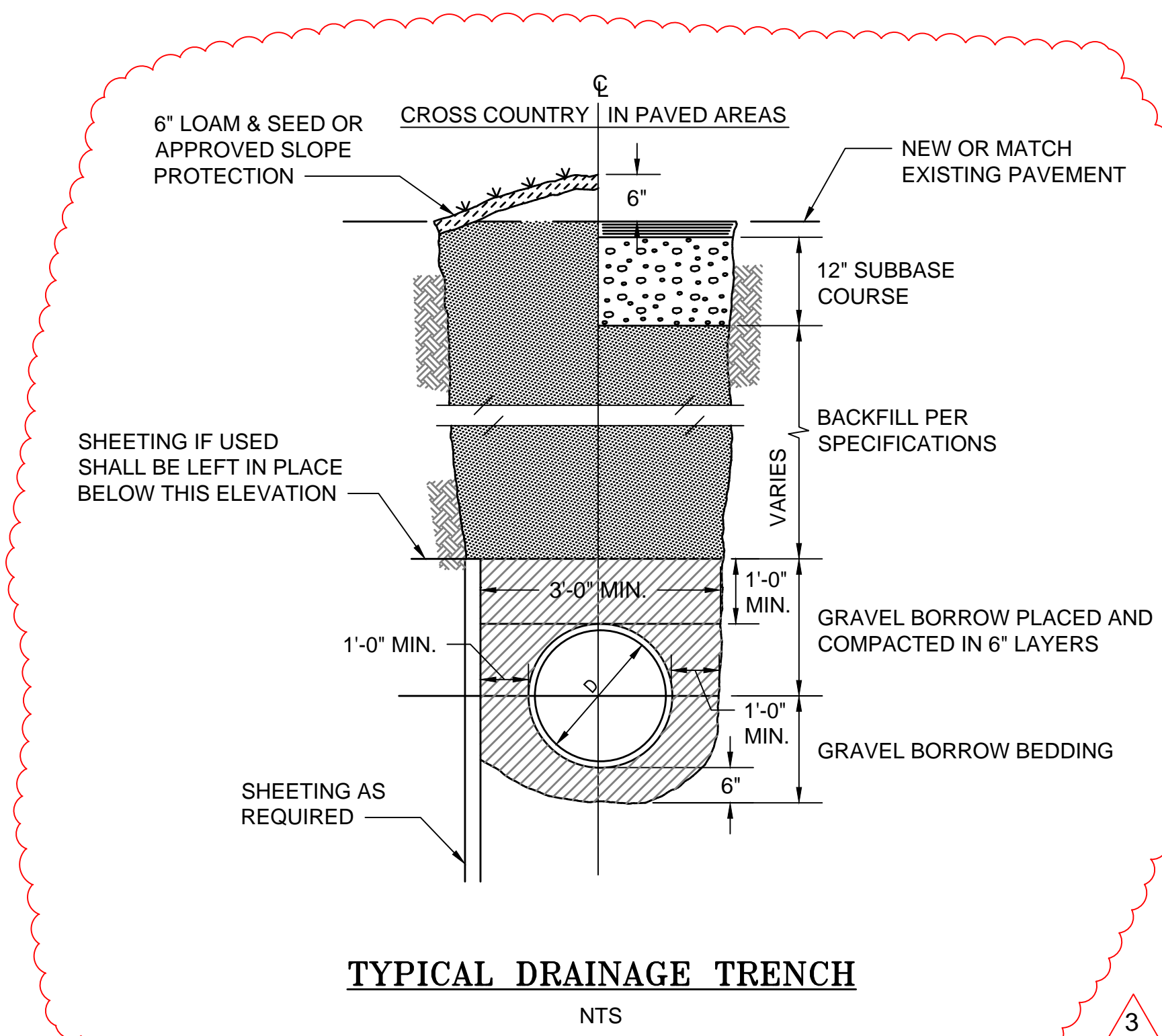
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	14	346
PROJECT FILE NO.		604428	

CONSTRUCTION DETAILS

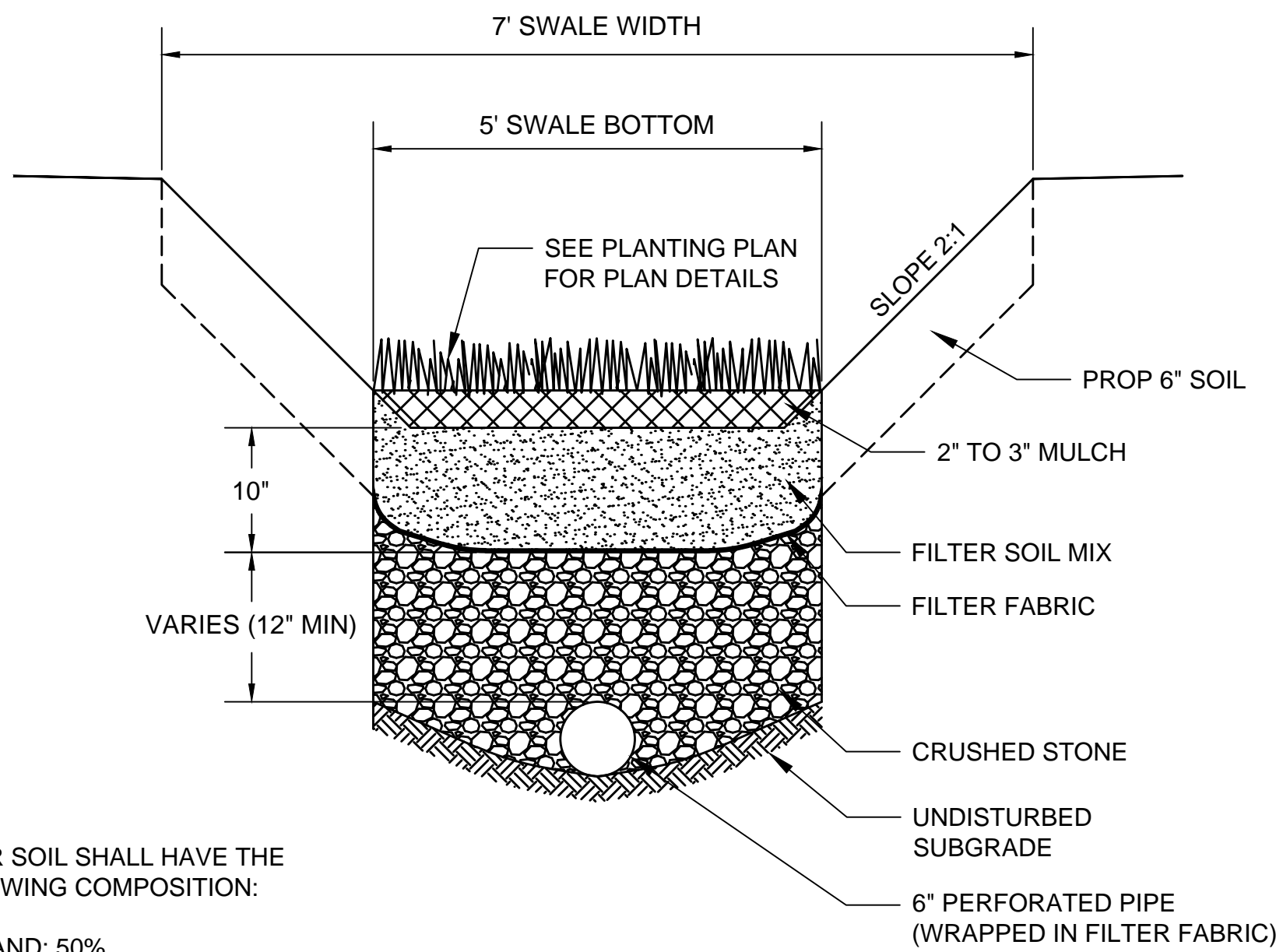


NOTE:  
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL  
PREVENT TRACKING OR FLOWING OF SEDIMENT OUT OF THE  
CONSTRUCTION AREA. THIS MAY REQUIRE TOP DRESSING, REPAIR  
AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT  
NTS



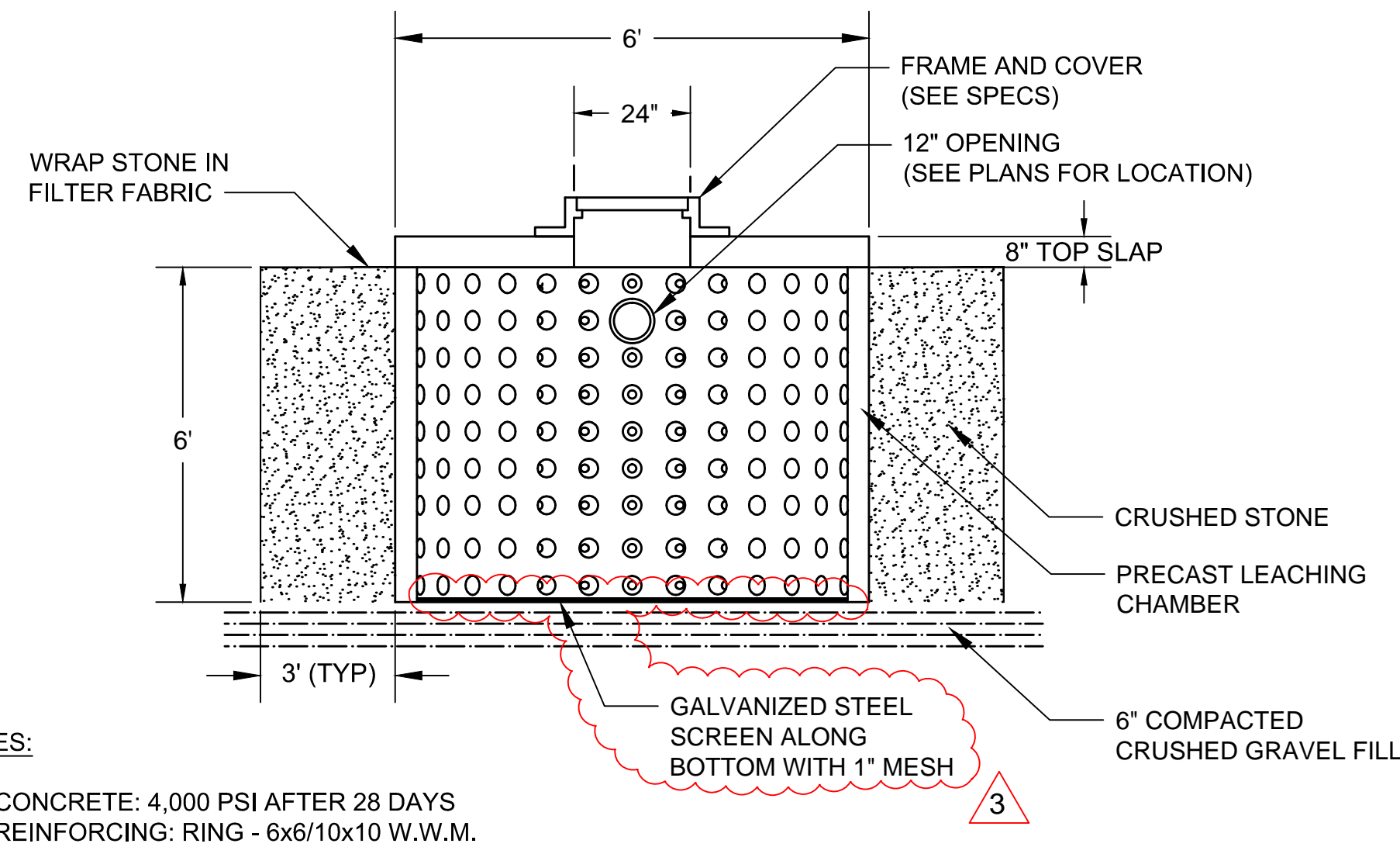
TYPICAL DRAINAGE TRENCH  
NTS



NOTE:  
FILTER SOIL SHALL HAVE THE  
FOLLOWING COMPOSITION:

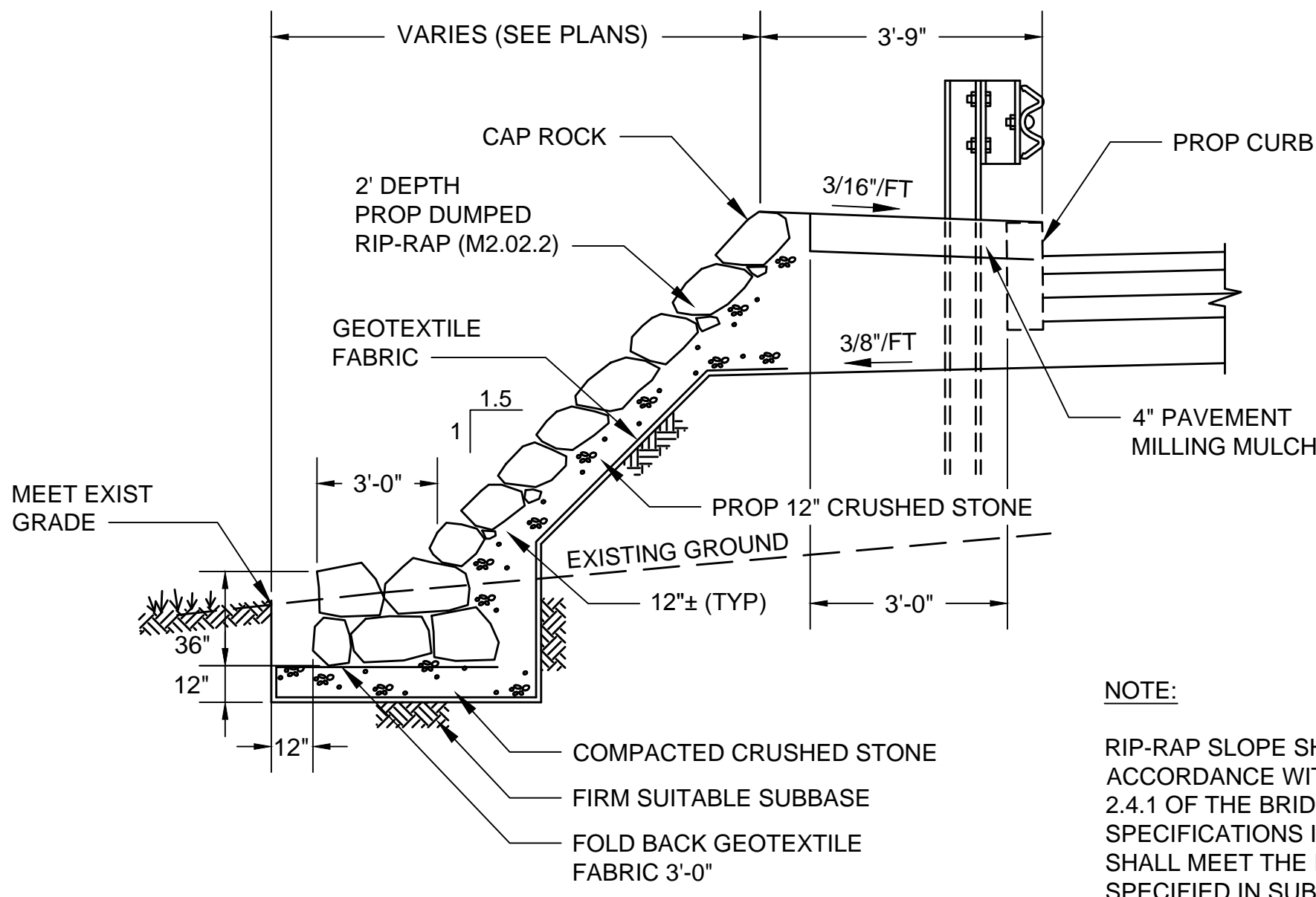
- SAND: 50%
- TOPSOIL: 30%
- ORGANIC MATTER: 20%
- pH RANGE: 5.5 - 6.5

VEGETATED SWALE  
NTS



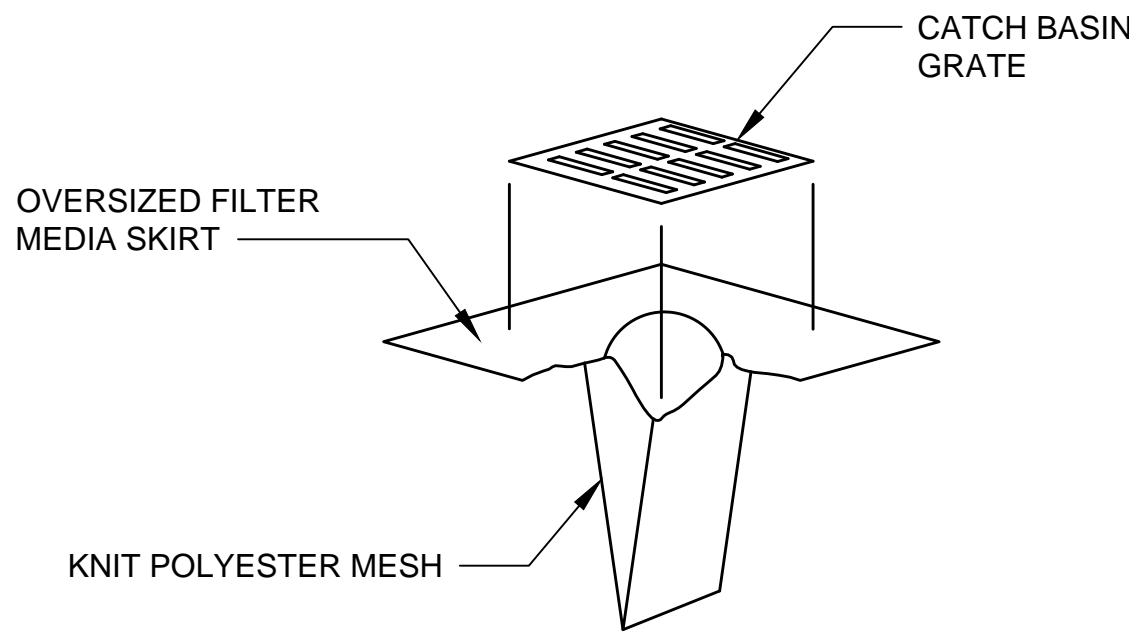
- NOTES:
- CONCRETE: 4,000 PSI AFTER 28 DAYS
  - REINFORCING: RING - 6x6/10x10 W.W.M.

DRY WELL DETAIL  
NTS

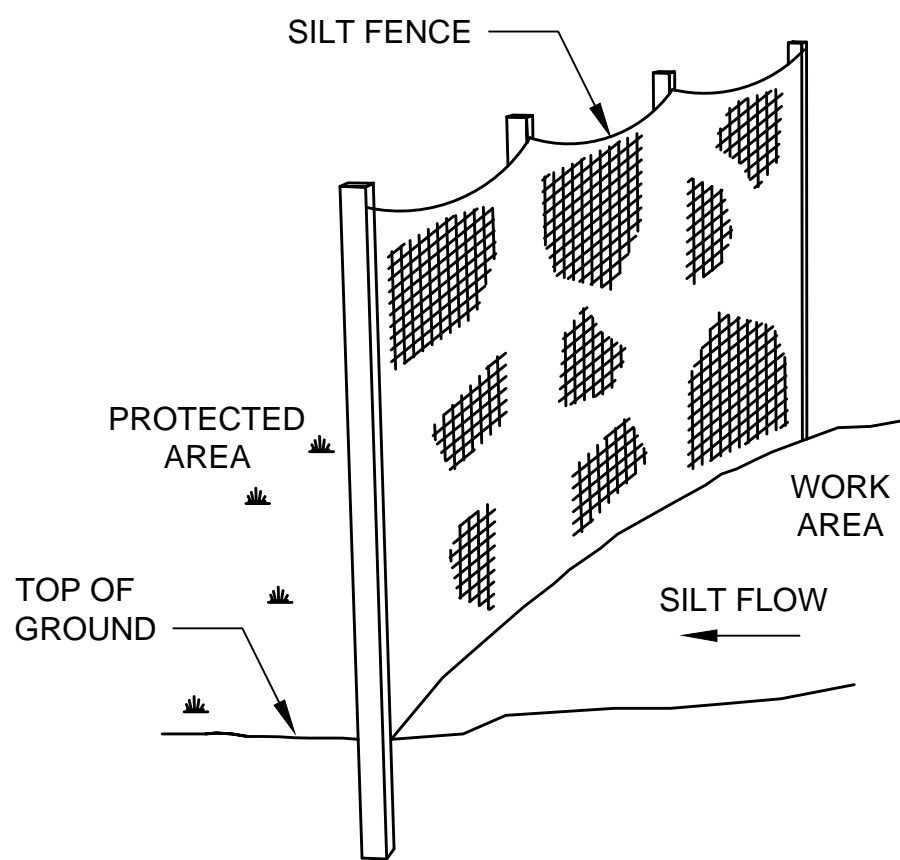


NOTE:  
RIP-RAP SLOPE SHALL BE INSTALLED IN  
ACCORDANCE WITH MASSDOT DRAWING  
2.4.1 OF THE BRIDGE MANUAL STANDARD  
SPECIFICATIONS ITEM 983. AND MATERIALS  
SHALL MEET THE REQUIREMENTS AS  
SPECIFIED IN SUBSECTION M2.02.2.

RIP-RAP SLOPE DETAIL  
NTS



SILT SACK  
NTS

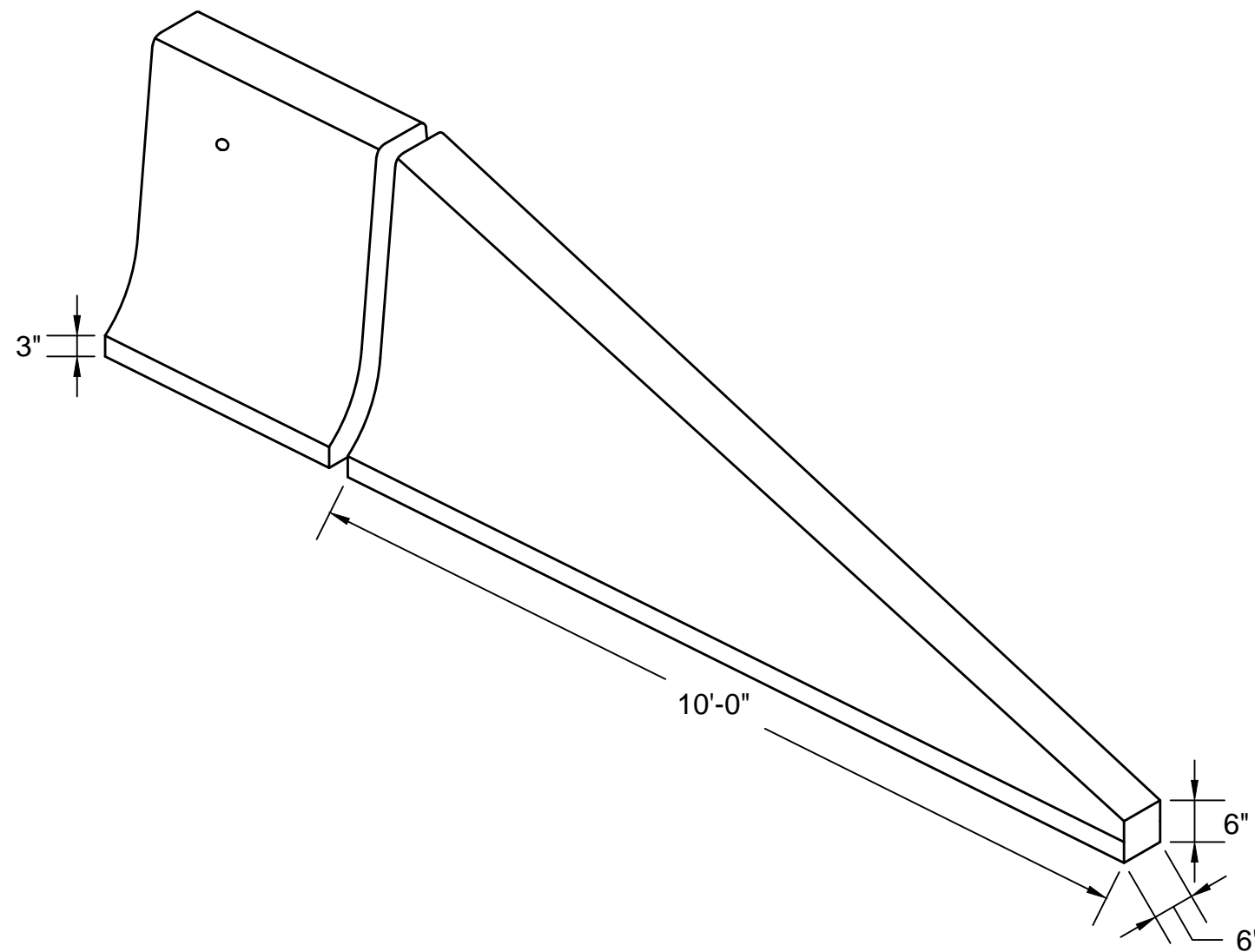


SILT FENCE  
NTS

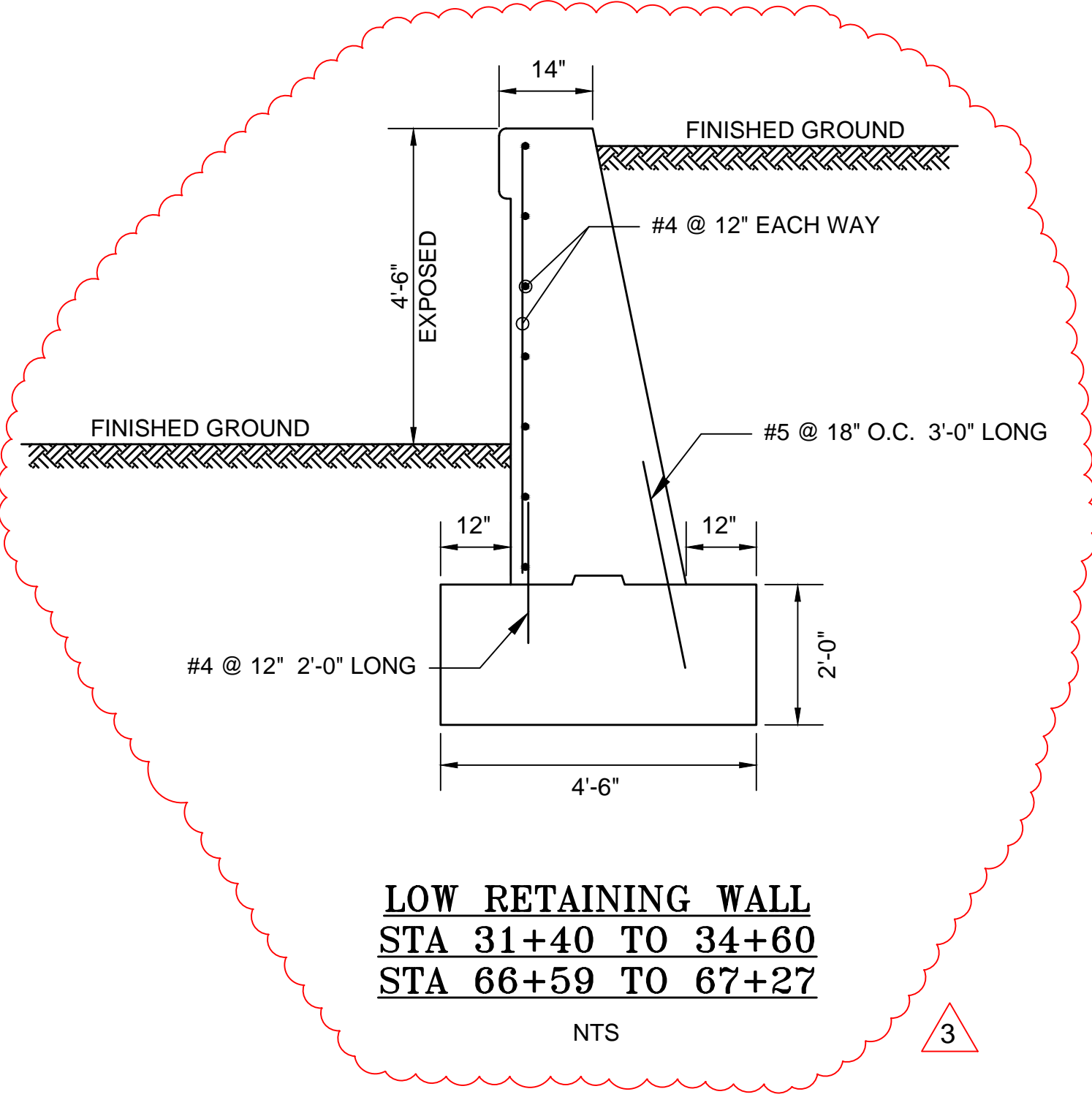
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SILVER LINE GATEWAY

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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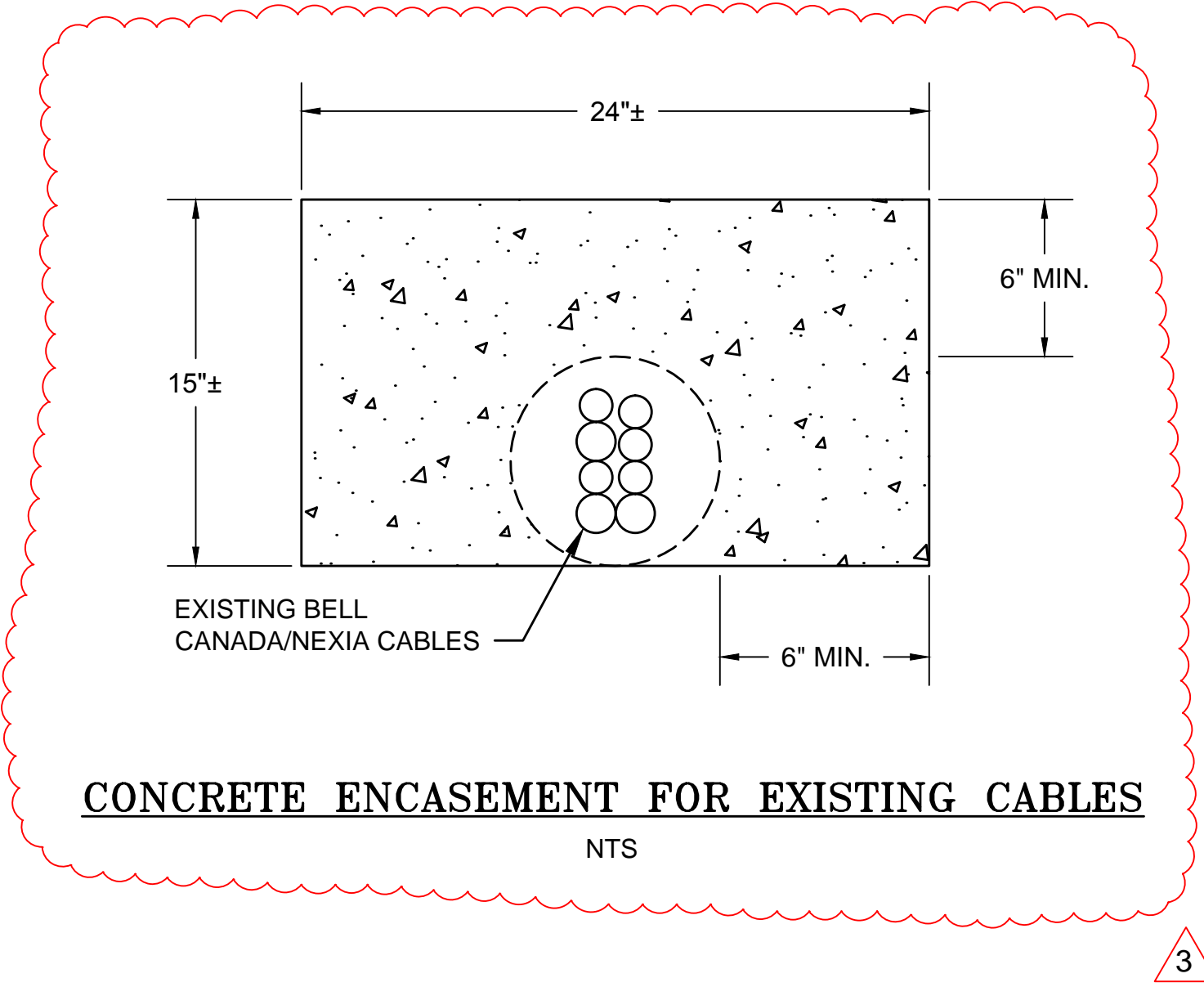
CONSTRUCTION DETAILS



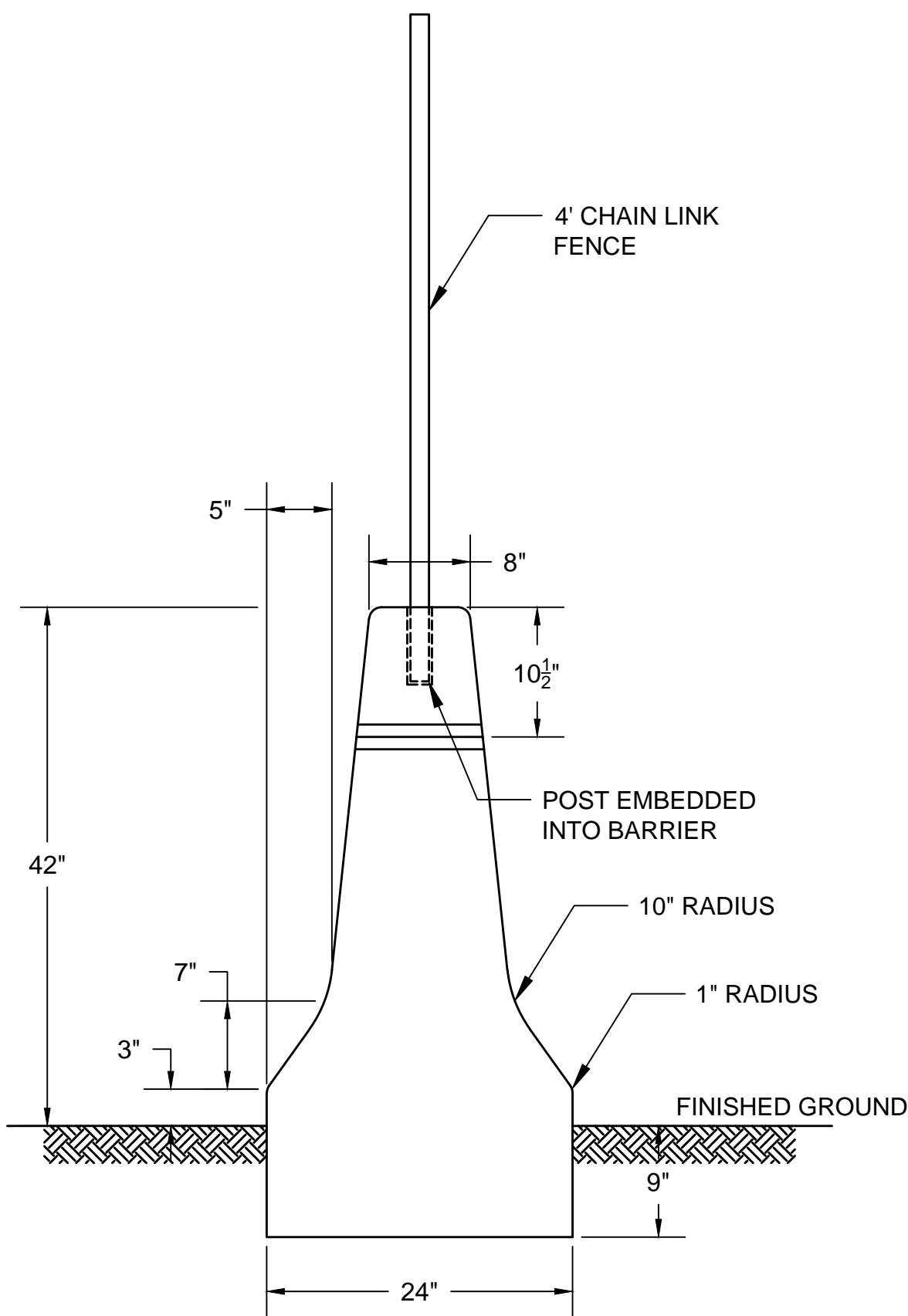
CONCRETE BARRIER TRANSITION  
NTS



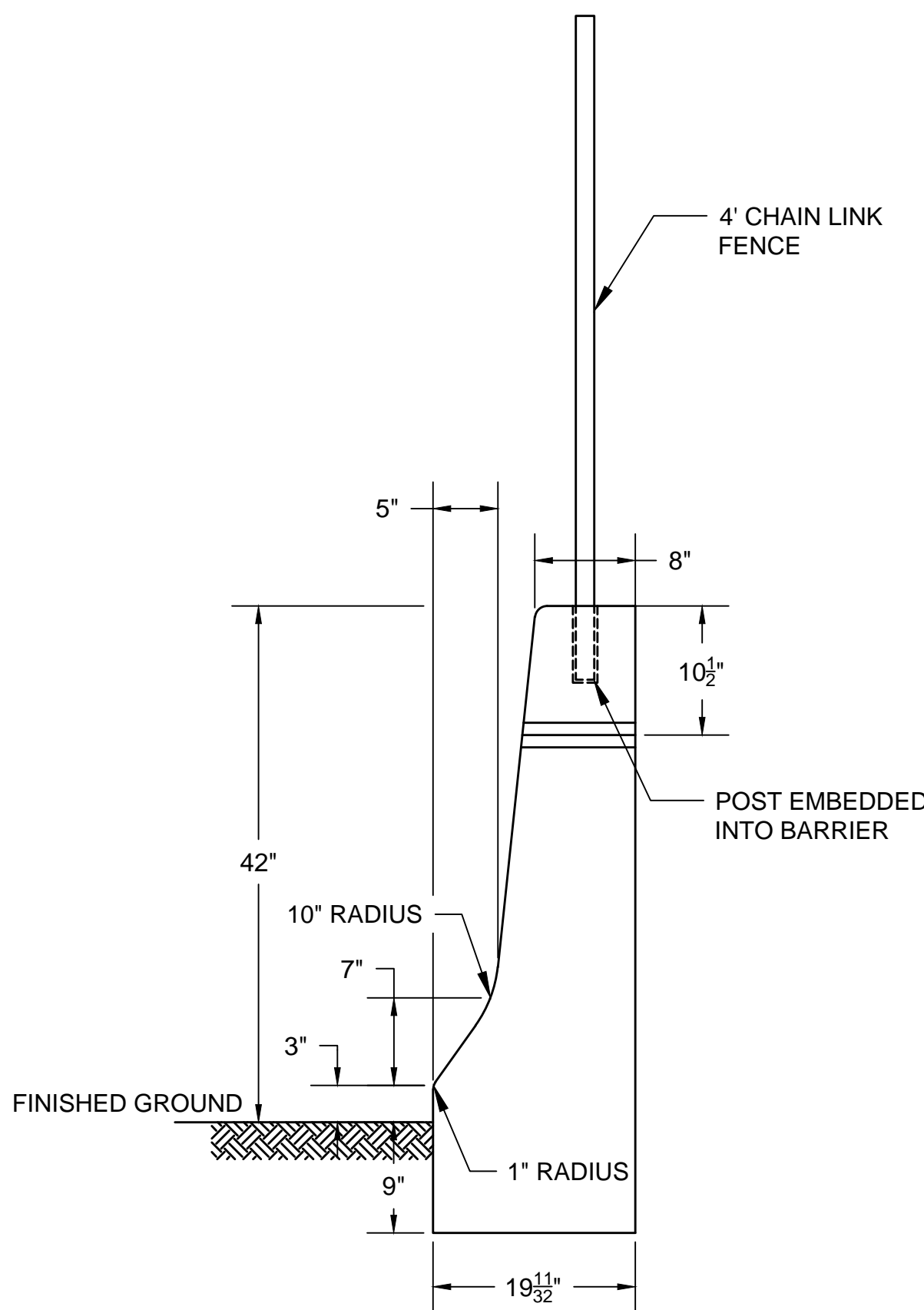
LOW RETAINING WALL  
STA 31+40 TO 34+60  
STA 66+59 TO 67+27  
NTS



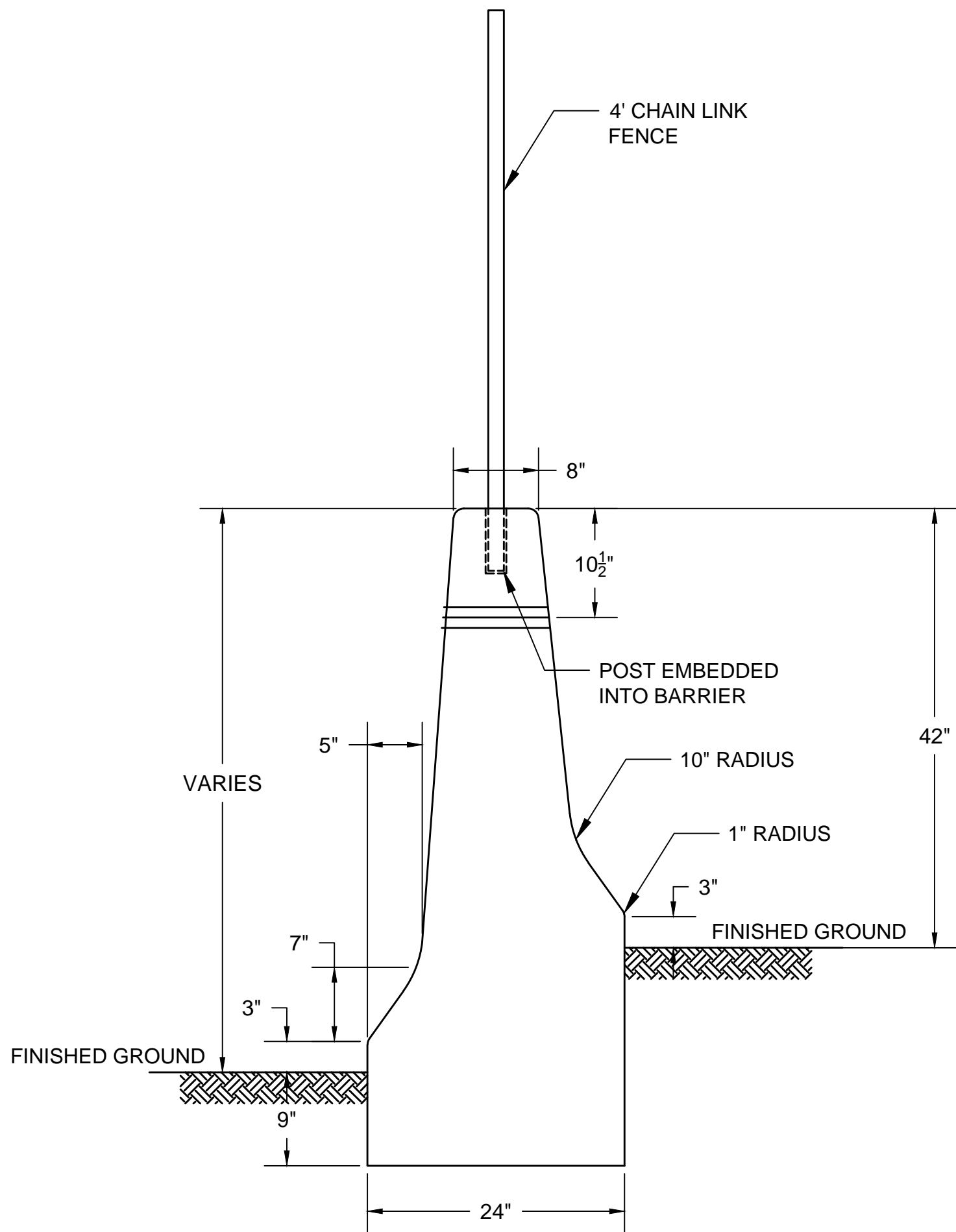
CONCRETE ENCASEMENT FOR EXISTING CABLES  
NTS



F-SHAPE CONCRETE BARRIER WITH 4' FENCE  
NTS



F-SHAPE SINGLE FACED CONCRETE BARRIER WITH 4' FENCE  
NTS



F-SHAPE ASYMMETRICAL CONCRETE BARRIER WITH 4' FENCE  
NTS



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE BELOW

WATER SUPPLY ALTERATIONS

NONE

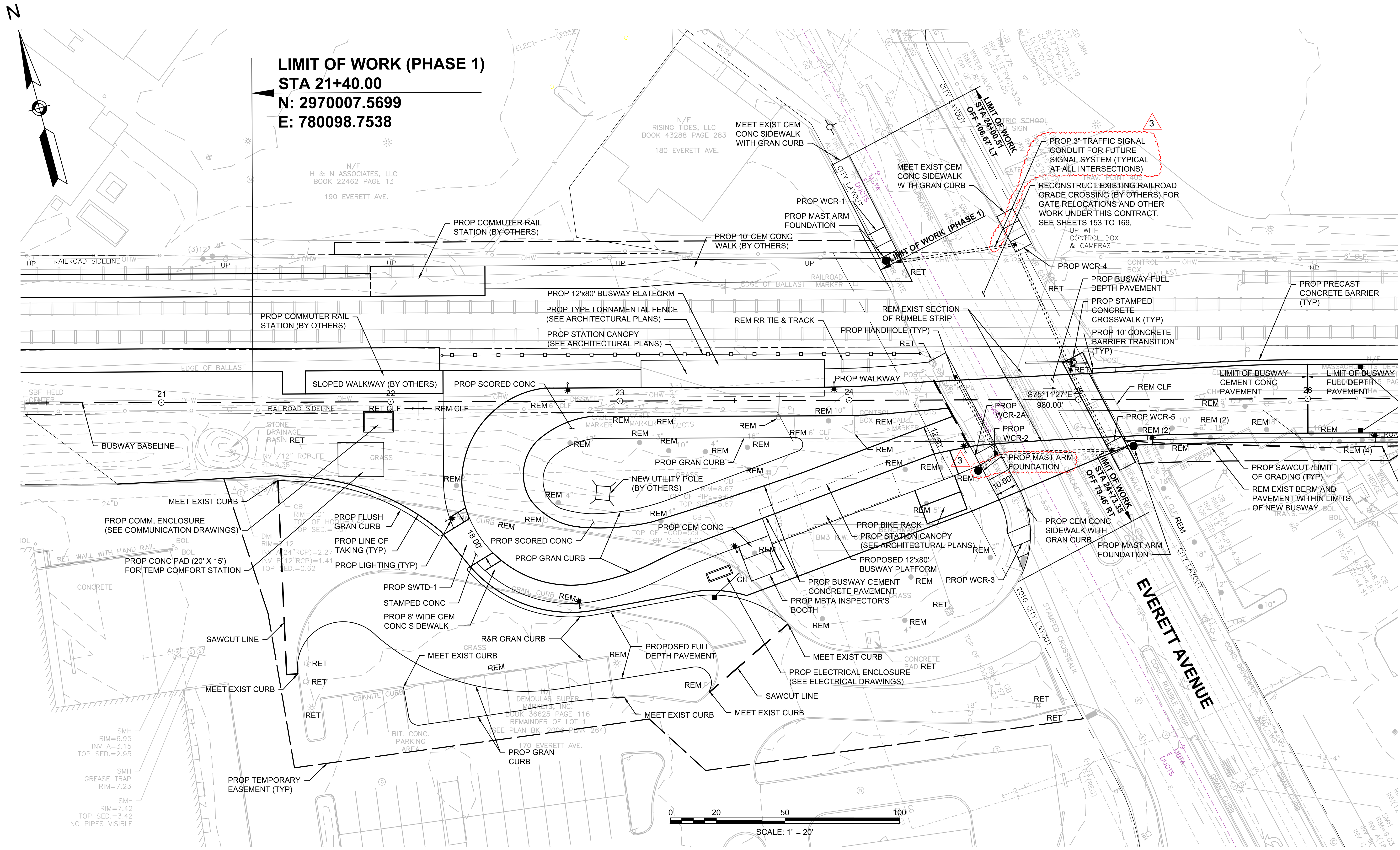
DRAINAGE DETAILS

SEE SHEET NO. 71

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MA	N/A	24	346
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CONSTRUCTION PLANS - BUSWAY



CONTINUED ON  
SHEET NO. 25



HIGHWAY GUARD DETAILS  
STA 31+38 RT to STA 34+35 RT

TRAFFIC SIGNAL CONDUIT  
SEE BELOW

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
SEE SHEET NO. 73

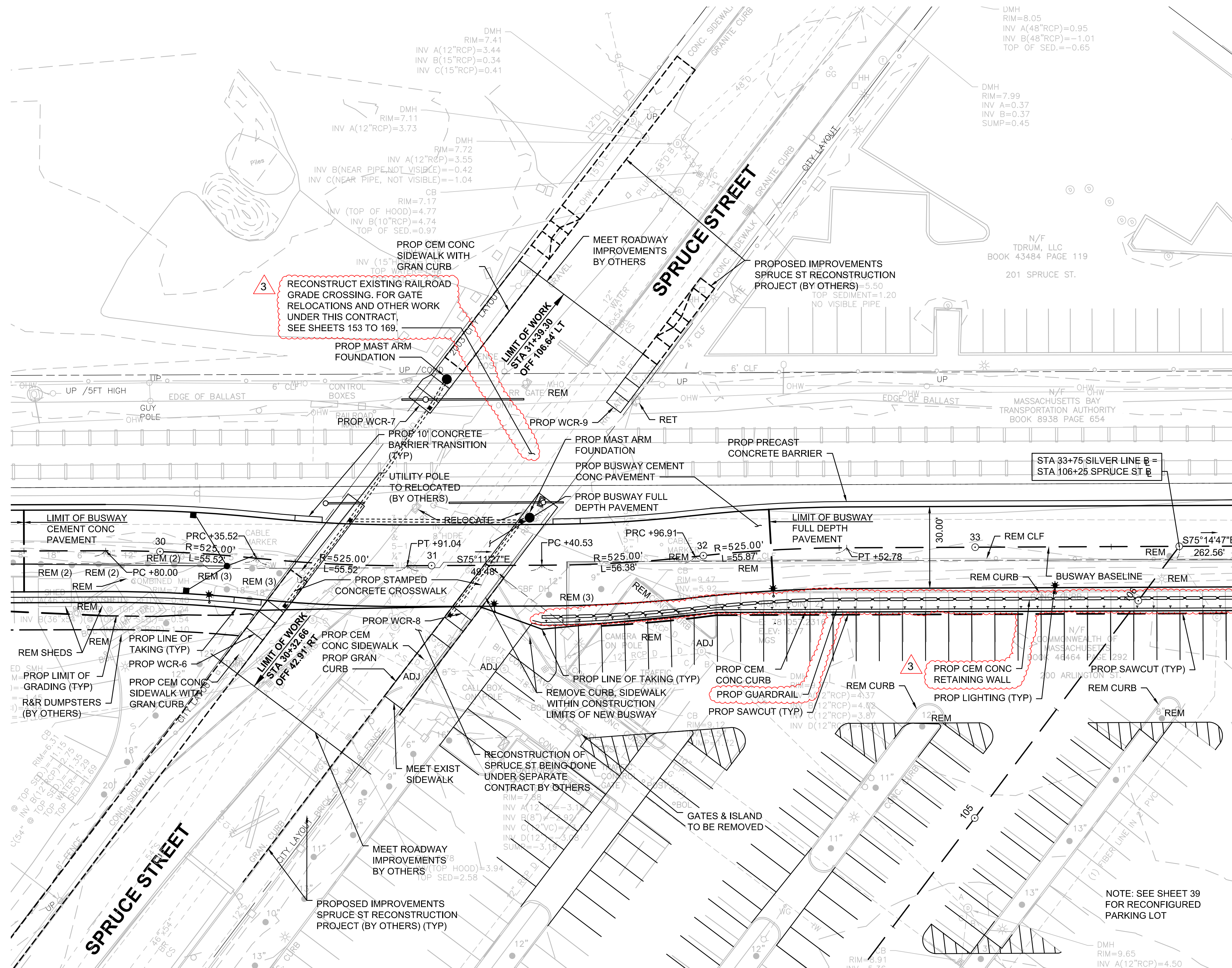
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SILVER LINE GATEWAY

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	26	346
PROJECT FILE NO.		604428	

CONSTRUCTION PLANS - BUSWAY

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SHEET NO. 25

CONTINUED ON  
SHEET NO. 27



NOTE:

RECONSTRUCTION OF SPRUCE STREET, NORTH AND SOUTH OF THIS PROJECT IS BEING DONE UNDER A SEPARATE CONTRACT, BY OTHERS. SEE APPENDIX IN SPECIAL PROVISIONS FOR PROJECT PLANS.



HIGHWAY GUARD DETAILS

STA 31+38 RT TO STA 34+35 RT  
STA 34+61 RT TO STA 37+09 RT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

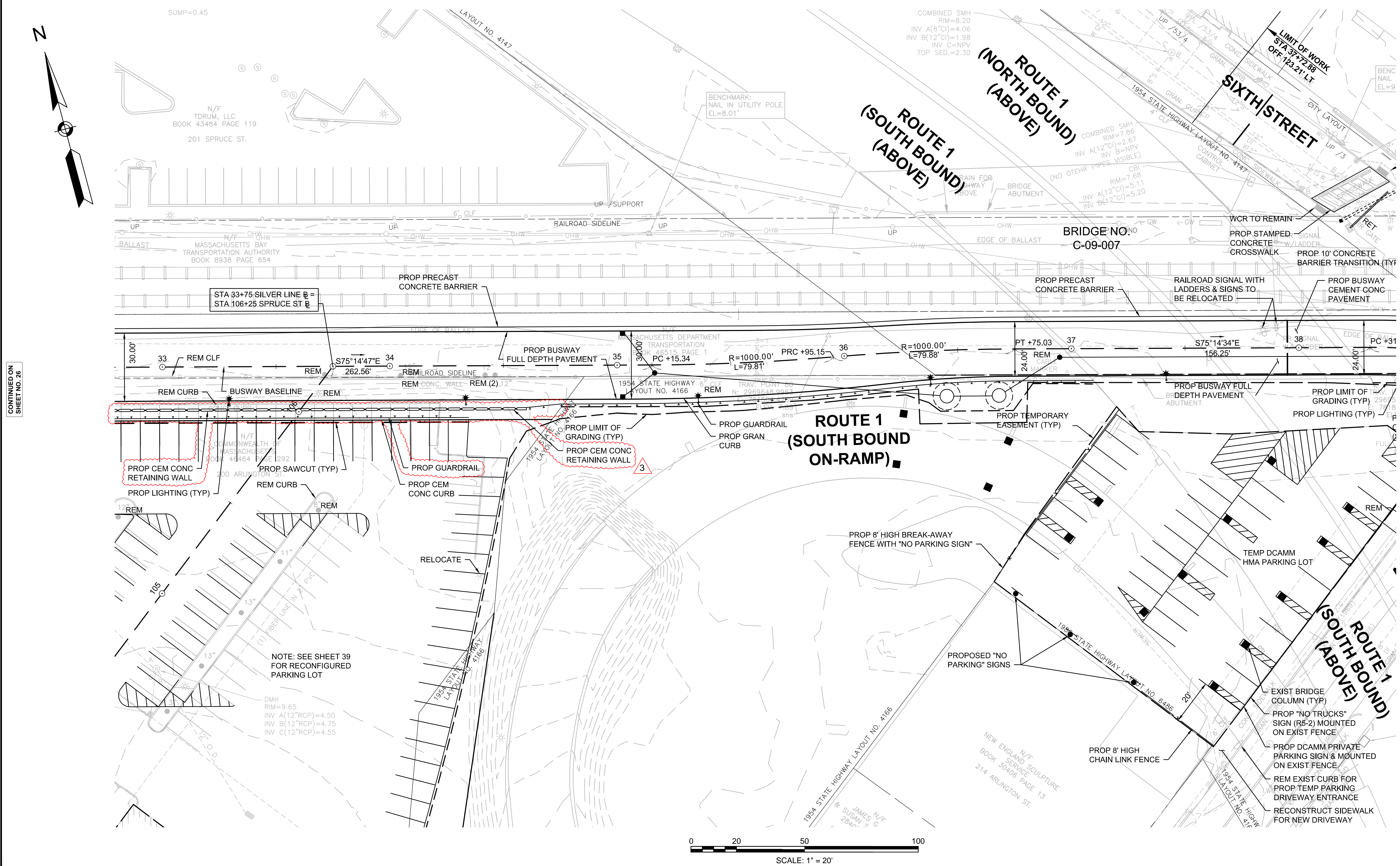
DRAINAGE DETAILS

SEE SHEET NO. 74

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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	27	346
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CONSTRUCTION PLANS - BUSWAY



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SHEET NO. 28

CONTINUED ON  
SHEET NO. 28



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE BELOW

WATER SUPPLY ALTERATIONS

SEE BELOW

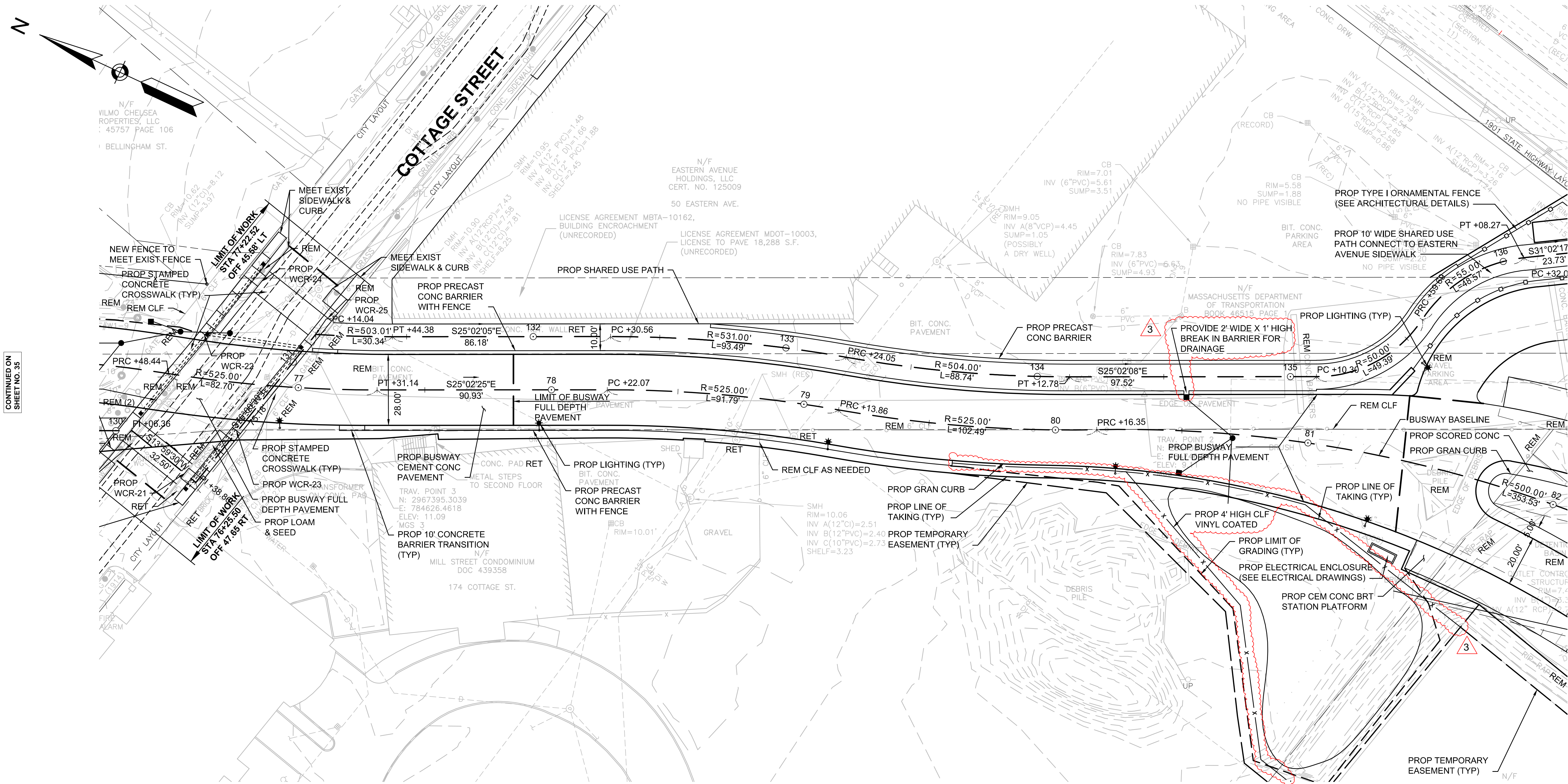
DRAINAGE DETAILS

SEE SHEET NO. 83

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SILVER LINE GATEWAY

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MA	N/A	36	346
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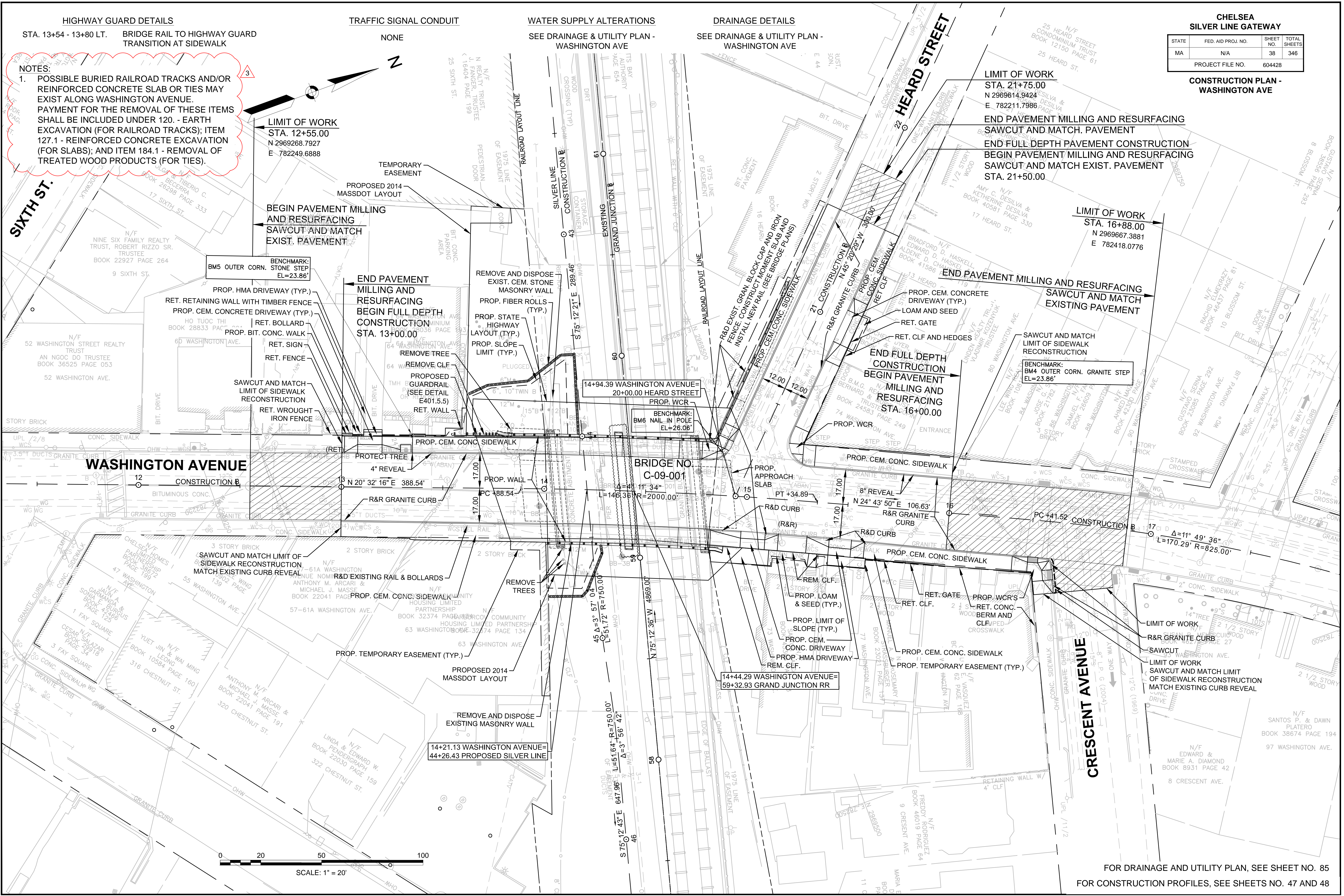
CONSTRUCTION PLANS - BUSWAY



CONTINUED ON  
SHEET NO. 35

CONTINUED ON  
SHEET NO. 37





**CHELSEA  
SILVER LINE GATEWAY**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	38	346

PROJECT FILE NO. 604428

**CONSTRUCTION PLAN -  
WASHINGTON AVE**

**LIMIT OF WORK**  
STA. 21+75.00  
N 2969614.9424  
E 782211.7986

**END PAVEMENT MILLING AND RESURFACING  
SAWCUT AND MATCH. PAVEMENT**

**END FULL DEPTH PAVEMENT CONSTRUCTION  
BEGIN PAVEMENT MILLING AND RESURFACING  
SAWCUT AND MATCH EXIST. PAVEMENT**  
STA. 21+50.00

**LIMIT OF WORK**  
STA. 16+88.00  
N 2969667.3881  
E 782418.0776

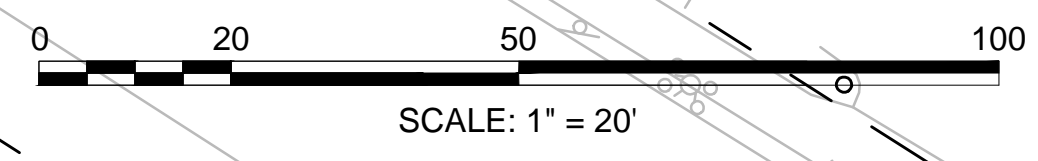
**END PAVEMENT MILLING AND RESURFACING  
SAWCUT AND MATCH  
EXISTING PAVEMENT**

**BENCHMARK:**  
BM4 OUTER CORN. GRANITE STEP  
EL=23.86'

**LIMIT OF WORK**  
STA. 14+44.29  
N 2969667.3881  
E 782418.0776

**END PAVEMENT MILLING AND RESURFACING  
SAWCUT AND MATCH  
EXISTING PAVEMENT**

**CRESCENT AVENUE**



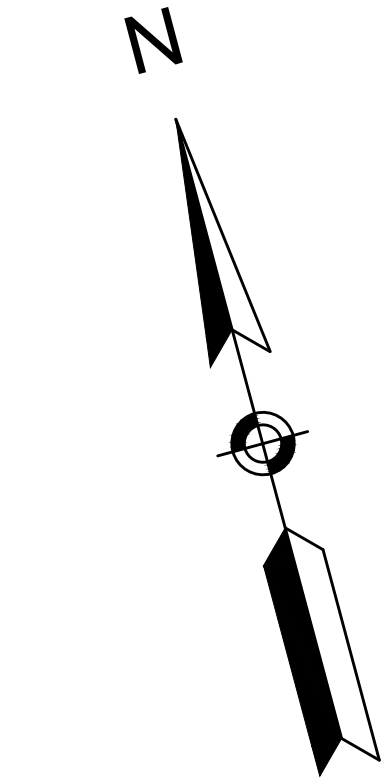
FOR DRAINAGE AND UTILITY PLAN, SEE SHEET NO. 85  
FOR CONSTRUCTION PROFILES, SEE SHEETS NO. 47 AND 48



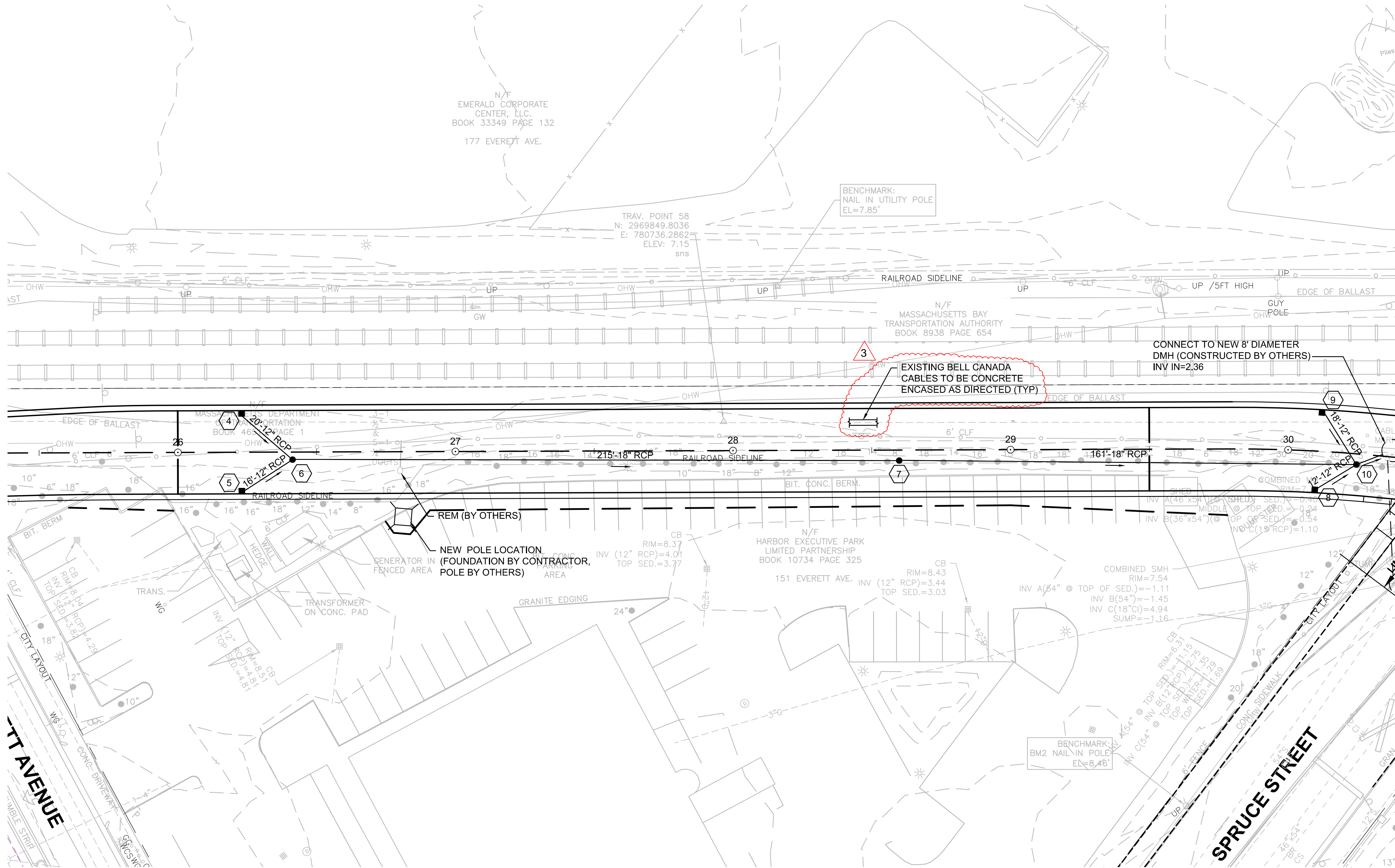
DRAINAGE STRUCTURE DATA							
NO.	TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
7	DMH	28+60	4' R	8.45	3.37	3.37	
8	CB	30+11	15' R	6.97	--	3.47	3
9	CB	30+11	15' L	6.97	--	3.47	
10	DMH	30+25	3.9' R	7.22	3.23 (CB 8) 3.23 (CB 9) 2.56 (DMH 7)	2.56	

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MA	N/A	72	346
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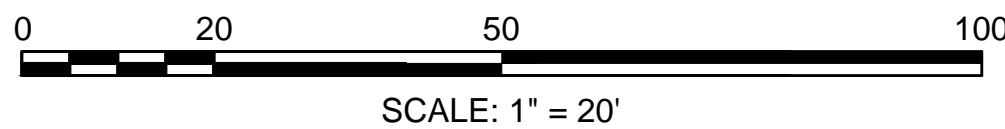
DRAINAGE & UTILITY PLANS - BUSWAY



CONTINUED ON  
SHEET NO. 71



CONTINUED ON  
SHEET NO. 73





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SILVER LINE GATEWAY

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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DRAINAGE & UTILITY PLANS - BUSWAY

DRAINAGE STRUCTURE DATA							
NO.	TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
11	CB	35+04	15' R	6.68	--	4.18	DIP FOR SHALLOW COVER
12	CB	35+04	15' L	6.68	--	4.18	DIP FOR SHALLOW COVER
13	DMH	35+17	4' R	6.92	3.94 (CB 11) 3.82 (CB 12)	3.82	
14	LEACHING BASIN	36+44	20' R	8.20	3.24	3.24	
15	LEACHING BASIN	36+68	20' R	8.20	3.24	5.39	
16	DMH	36+95	4' R	7.79	5.29	5.29	

CONTINUED ON  
SHEET NO. 73

CONTINUED ON  
SHEET NO. 75

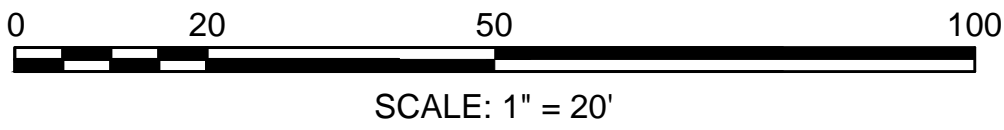
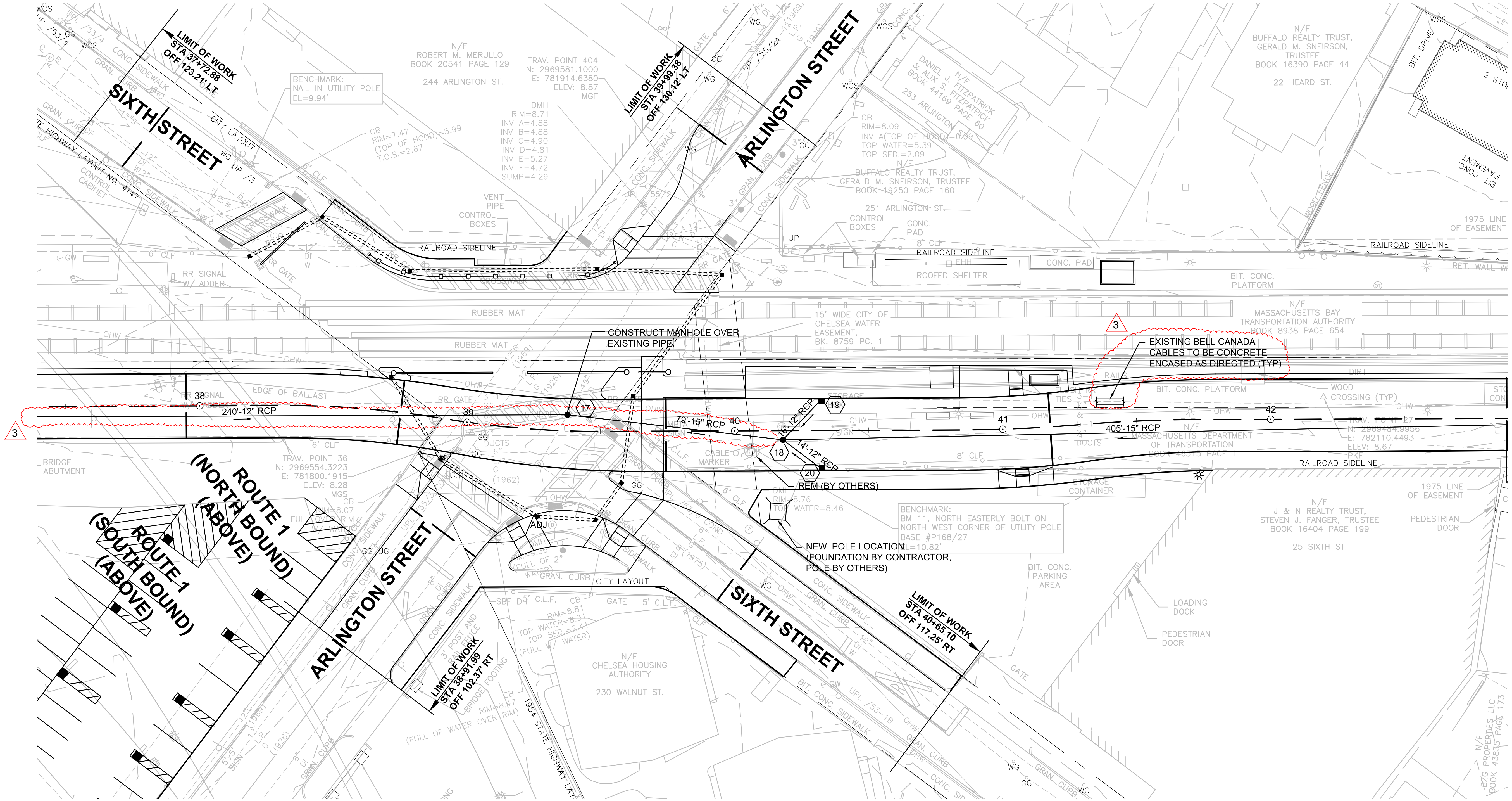


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SILVER LINE GATEWAY

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	75	346
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DRAINAGE & UTILITY PLANS - BUSWAY

DRAINAGE STRUCTURE DATA							
NO.	TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
17	DMH	39+37	6' L	8.83	4.90 (DMH 16) 4.90 (DMH 18)	(EXIST)	MH OVER EXISTING PIPE
18	DMH	40+18	3' R	8.55	5.48 (CB 19) 5.48 (CB 20) 5.48 (DMH 24)	5.26	
19	CB	40+32	12' L	8.30	--	5.80	
20	CB	40+32	15' R	8.24	--	5.74	



CONTINUED ON  
SHEET NO. 74


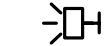


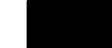

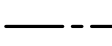


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SHEET NO. 76



CHELSEA SILVER LINE GATEWAY			
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LEGEND, SYMBOLS AND GENERAL NOTES

PLANS

-  PROPOSED LIGHT POLE WITH ONE LUMINAIRE
-  PROPOSED WALL MOUNTED
-  PROPOSED ELECTRICAL HANDHOLE 1'-0" x 2'-0" UNLESS OTHERWISE NOTED
-  PROPOSED ELECTRICAL HANDHOLE 3'-0" x 4'-0" UNLESS OTHERWISE NOTED
-  PROPOSED ELECTRICAL LOAD CENTER
-  PROPOSED CONCRETE ENCASED DUCTBANK ELECTRICAL CONDUIT TYPE NM - UNLESS OTHERWISE NOTED
-  PROPOSED DIRECT BURIED ELECTRICAL CONDUIT TYPE NM
-  ILLUMINATED LOLLIPOP "T" SIGN
-  SECURITY CAMERA  
(REFER TO COMMUNICATIONS DRAWINGS FOR FURTHER DETAILS)

LUMINAIRE NUMBER	CIRCUIT NUMBER
STATION	
TYPE	ANSI/IES DISTRIBUTION
MOUNTING HEIGHT	LUMINAIRE WATTAGE

EQUIPMENT ENCLOSURE SCHEDULE				
LOCATION	NEMA TYPE			
	1	3R	4	12
INSIDE ENCLOSURES, CABINETS, SHEDS, ETC.	X	**	4X	
OUTDOORS		X		

\*\* LUMINAIRES - WET LOCATION LISTED

ABBREVIATIONS

- APPROX. APPROXIMATELY
- COMM COMMUNICATIONS
- EHH ELECTRICAL HAND HOLE
- EL ELEVATION
- ETHER ETHERNET
- FOC FIBER OPTIC CABLE
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- G GROUND
- LTG LIGHTING
- MIN MINIMUM
- MTD MOUNTED
- PROP PROPOSED
- SEC SECURITY
- TYP TYPICAL
- W DENOTES WATERTIGHT EQUIPMENT
- WP DENOTES WEATHERPROOF EQUIPMENT
- XST EXISTING

GENERAL NOTES

1. CONDUIT INSTALLATIONS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT, EXISTING CONDITIONS AND STRUCTURAL CONDITIONS.
2. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE OWNER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.
3. ITEMS SHALL BE PROVIDED WITH NEMA ENCLOSURE AS INDICATED ON DRAWINGS AND IN THE SPECIFICATIONS.
4. THE PROPOSED LIGHTING LOAD CENTERS SHALL BE PLACED ON NEW FOUNDATION IN COORDINATION WITH THE NSTAR ELECTRIC, MBTA, THE CITY OF CHELSEA, THE ENGINEER AND ANY OTHER INVOLVED ENTITY.
5. LOCATIONS OF LIGHT POLES ARE EXACT, HANDHOLES, CONDUITS, JUNCTION BOXES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER TO SUIT CONDITIONS.
6. LUMINAIRE HEIGHT SHALL BE FROM THE TOP OF THE FOUNDATION.
7. THE CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO CONSTRUCTION.
8. ALL CONDUIT BURIED UNDER GROUND SHALL BE 3" NM PVC UNLESS OTHERWISE INDICATED.
9. ALL LUMINAIRE POLE ANCHOR BOLT SIZES, NUMBER, LENGTH AND BOLT CIRCLE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
10. ALL WIRING SHALL BE IN ACCORDANCE WITH SECTION 813.20 AND THE SPECIAL PROVISIONS.
11. ALUMINUM WIRING SHALL NOT BE USED.
12. GROUNDING CONDUCTORS SHALL BE CONTINUOUS.
13. MATERIALS AND EQUIPMENT SHALL BE LISTED BY THE UNDERWRITER LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS.
14. INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
15. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL CODES, REGULATIONS AND REQUIREMENTS OF ALL MUNICIPAL, STATE, FEDERAL AND OTHER PUBLIC OR PRIVATE AUTHORITIES WHICH HAVE JURISDICTION. IN EACH CASE, CODES ARE MINIMUM REQUIREMENTS.
16. CONTRACTOR SHALL CONTACT NSTAR ELECTRIC PRIOR TO ANY STREET LIGHTING AND SIGNAL DISCONNECTIONS.
17. THE BUS RAPID TRANSIT ROUTE IS BASED ON THE MBTA LIGHTING LEVELS REQUIREMENTS OF 4.0 FC. THE SUP (SHARED USE PATH) LIGHTING LEVELS REQUIREMENTS ARE 1.0 FC PER THE IESNA DATED 6/27/00.
18. OTHER MANUFACTURER'S PRODUCTS MAY BE SUBSTITUTED FOR THE ROADWAY AND SUP LUMINAIRES IF THE INSTALLED LUMINAIRE LIGHT UTILIZATION AND MINIMUM FC FOR THE BUS RAPID TRANSIT ROUTE AND THE SUP (SHARED USE PATH) ARE AS LEAST AS GREAT AS THAT INDICATED IN GENERAL NOTES.



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PROJECT FILE NO.		604428	

PLAN AND ELEVATION

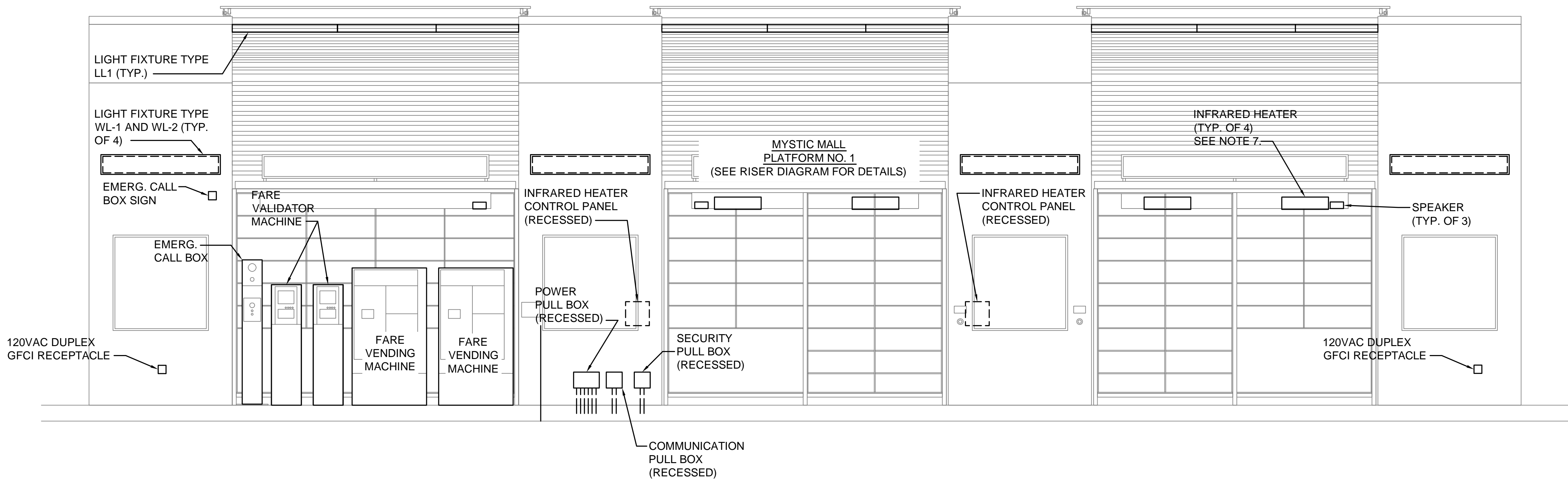
NOTES:

- CONDUITS SHALL BE CONCEALED IN THE CONCRETE SLAB, WALLS AND CEILINGS AND CEILING CAVITIES WHERE POSSIBLE.
- PROVIDE FLUSH MOUNTED JUNCTION BOXES FOR EACH LIGHT FIXTURE, HEATER, EMERGENCY CALL BOX, VMS SIGN, SECURITY CAMERAS, ETC., ADDITIONAL BOXES SHALL BE INSTALLED TO ACCOMMODATE ADDITIONAL BENDS NOT INDICATED, COORDINATE WITH OTHER DISCIPLINES FOR EXACT LOCATION AND NUMBER OF DEVICES. JUNCTION BOXES SHALL BE SIZED TO ACCOMMODATE THE CONDUIT AND CONDUCTOR SIZES PER THE N.E.C. ALL BOXES ARE TO HAVE STAINLESS STEEL COVERS AND TAMPERPROOF SCREWS.
- CONTRACTOR TO COORDINATE WITH OTHER DISCIPLINES TO ENSURE THAT THE CONCRETE ENCASED CONDUITS AND FLUSH MOUNTED JUNCTION BOXES/PULL BOXES INSTALLED DO NOT INTERFERE WITH ANY STRUCTURAL REINFORCING BARS OR OTHER STRUCTURAL MEMBERS.
- PLATFORM PLAN AND ELEVATION SHOWN ARE SIMILAR FOR ALL PLATFORMS.
- REFER TO SHEET NO. 109 FOR TYPICAL PLATFORM POWER, COMMUNICATION AND SECURITY RISER DIAGRAMS.
- FOR ADDITIONAL INFORMATION ON THE PLATFORM LIGHTING, HEATER AND SPEAKER LOCATIONS SEE THE ARCHITECTURAL DRAWINGS.
- ELECTRIC INFRARED HEATER (TYP)  
3.2 KW, 240V/1PH/60CY  
24" LONG X 15" WIDE X MAX 12" HEIGHT  
30 DEGREE REFLECTIVE PATTERN  
STAINLESS STEEL CONSTRUCTION  
STAINLESS STEEL WIRE GUARD AND RECESSED MOUNTING FRAME  
RAYWALL MODEL 222-30-THSS-240V OR EQUAL BY CHROMALOX OR PROTHERM

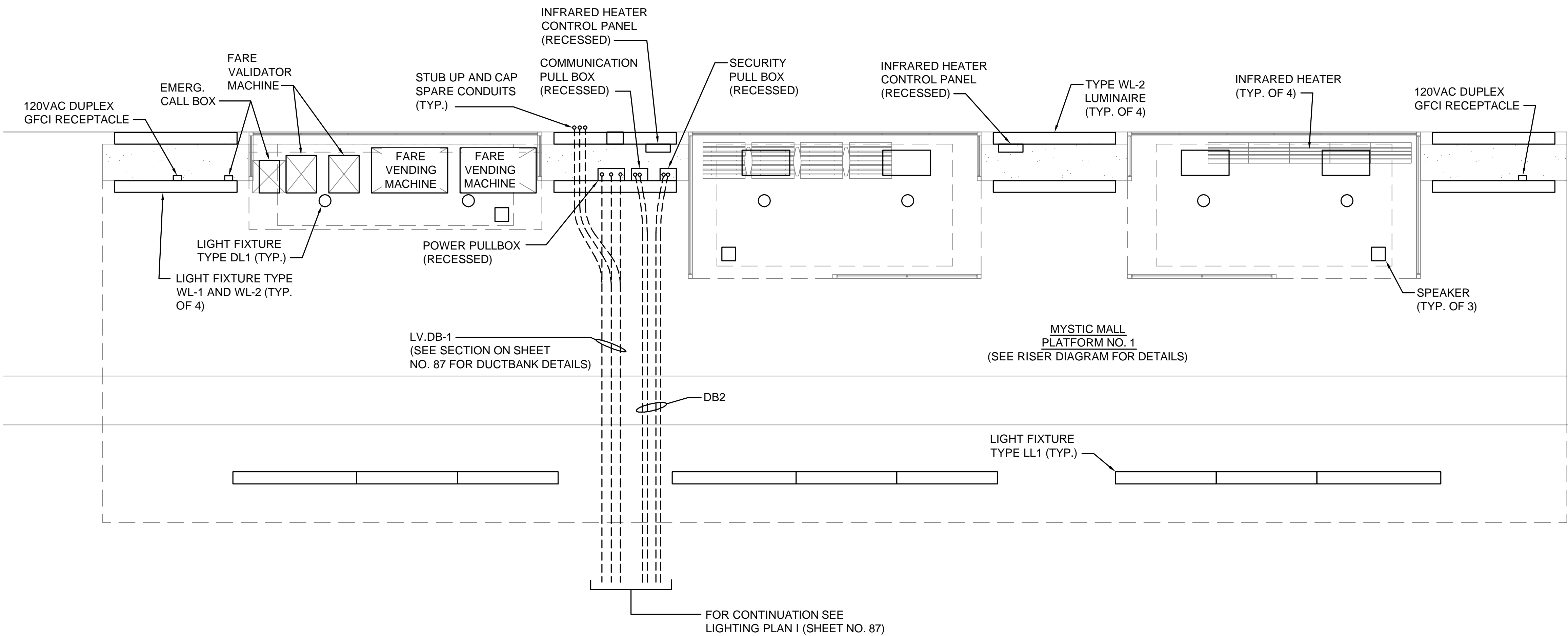
NOTES:

- FOR EACH BUS STOP HEATED ENCLOSURE, PROVIDE A LOCKABLE NEMA 1 OR NEMA 4 CONTROL PANEL WITH DISCONNECT SWITCH, CONTACTOR, FUSING, 24 VOLT CONTROL CIRCUIT, HEATER ON/OFF TIMER SWITCH, AND REMOTE PILOT LIGHT INDICATING HEATER ON. TIMER SWITCH SHALL BE 0 TO 10 MINUTES MINIMUM, 0 TO 20 MINUTES MAXIMUM RANGE. ALL HEATERS WITHIN ONE BUS STOP ENCLOSURE SHALL BE CONTROLLED BY ONE CONTROL PANEL. MOUNT EACH CONTROL PANEL INSIDE A LOCKED NEMA 4 METAL BOX LOCATED WHERE INDICATED INSIDE EACH BUS STOP HEATED ENCLOSURE. PROVIDE A REMOTE ADA VANDAL-RESISTANT "ON" BUTTON, AND A REMOTE ADA VANDAL-RESISTANT "OFF" BUTTON. BOTH BUTTONS SHALL BE CORROSION-RESISTANT METAL AND MINIMUM 2" DIAMETER. THE REMOTE "ON" BUTTON WILL BE PUSHED TO ENERGIZE THE HEATERS FOR THE SET TIME OF THE TIMER INSIDE THE CONTROL PANEL (SET BY THE INSTALLER). THE "OFF" BUTTON WILL BE PUSHED TO TURN OFF THE HEATERS IF NECESSARY BEFORE THE TIMER TURNS OFF THE HEATERS. THE REMOTE PILOT LIGHT MOUNTED IN THE FACE OF THE OUTER METAL PANEL SHALL BE CONNECTED TO THE HEATER MANUFACTURER'S CONTROL PANEL VIA A WIRING HARNESS. THE REMOTE "ON" AND "OFF" BUTTONS WILL BE CONNECTED TO THE HEATER MANUFACTURER'S CONTROL PANEL VIA FIELD WIRING AND CONDUIT.
- HEATER INSTALLATION REQUIREMENTS, MFR RECOMMENDED MINIMUM CLEARANCES AND HEAT PATTERN COVERAGE SHALL BE COMPATIBLE WITH BUS STOP HEATED ENCLOSURE LAYOUT.
- SUBMIT SHOP DRAWING FOR APPROVAL INDICATING PRODUCT DATA, INSTALLATION DETAILS INCLUDING MFR RECOMMENDED MINIMUM CLEARANCES, PLACEMENT IN BUS STOP HEATED ENCLOSURE, AND HEAT PATTERN COVERAGE IN PLAN AND SECTION.

3



**MYSTIC MALL PLATFORM NO. 1 ELEVATION**  
(SIMILAR FOR MYSTIC MALL PLATFORM NO. 2, CHELSEA CENTER, EASTERN AVENUE PLATFORMS)  
N.T.S.



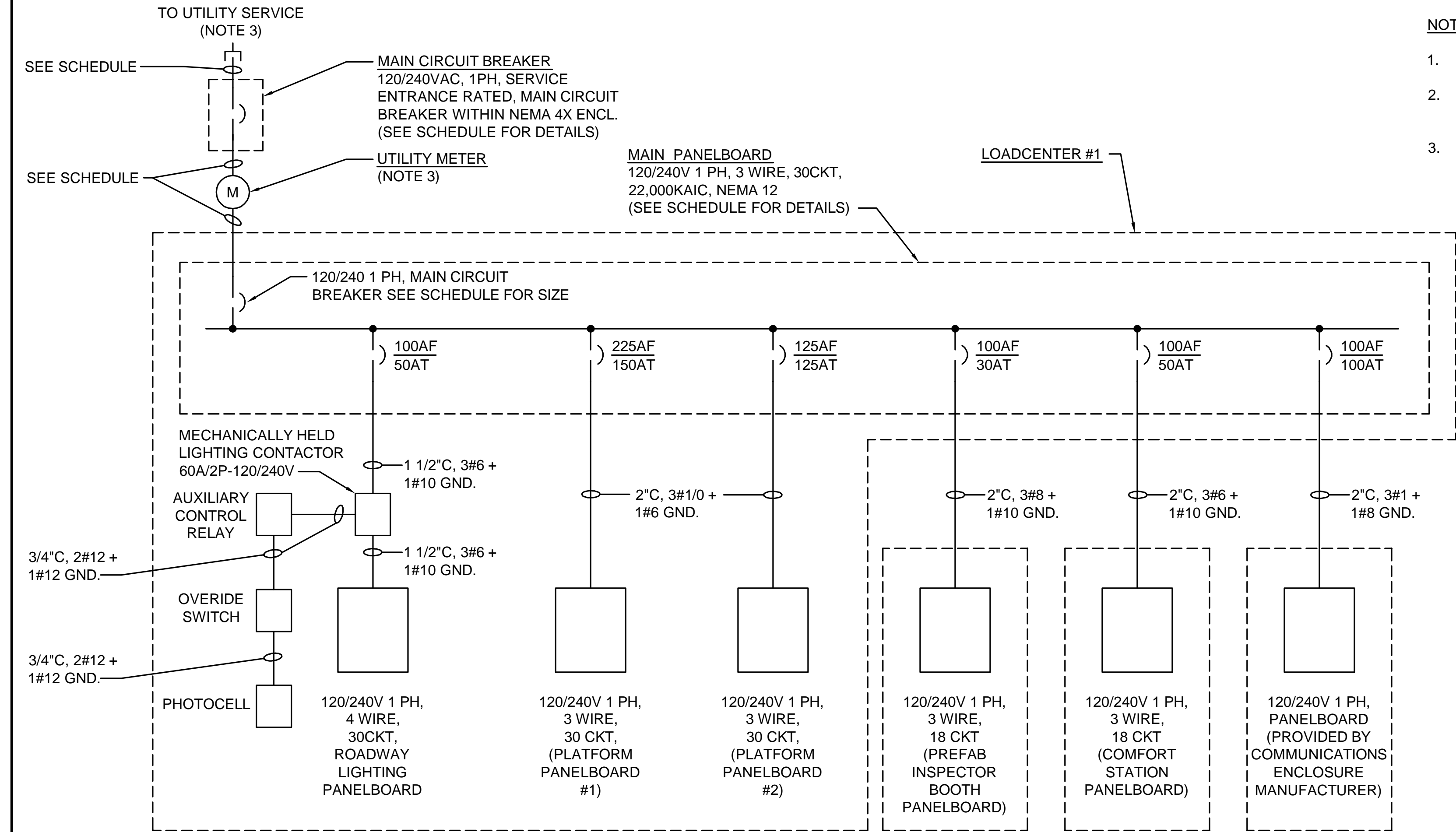
**MYSTIC MALL PLATFORM NO. 1 PLAN**  
(SIMILAR FOR MYSTIC MALL PLATFORM NO. 2, CHELSEA CENTER, EASTERN AVENUE PLATFORMS)  
N.T.S.



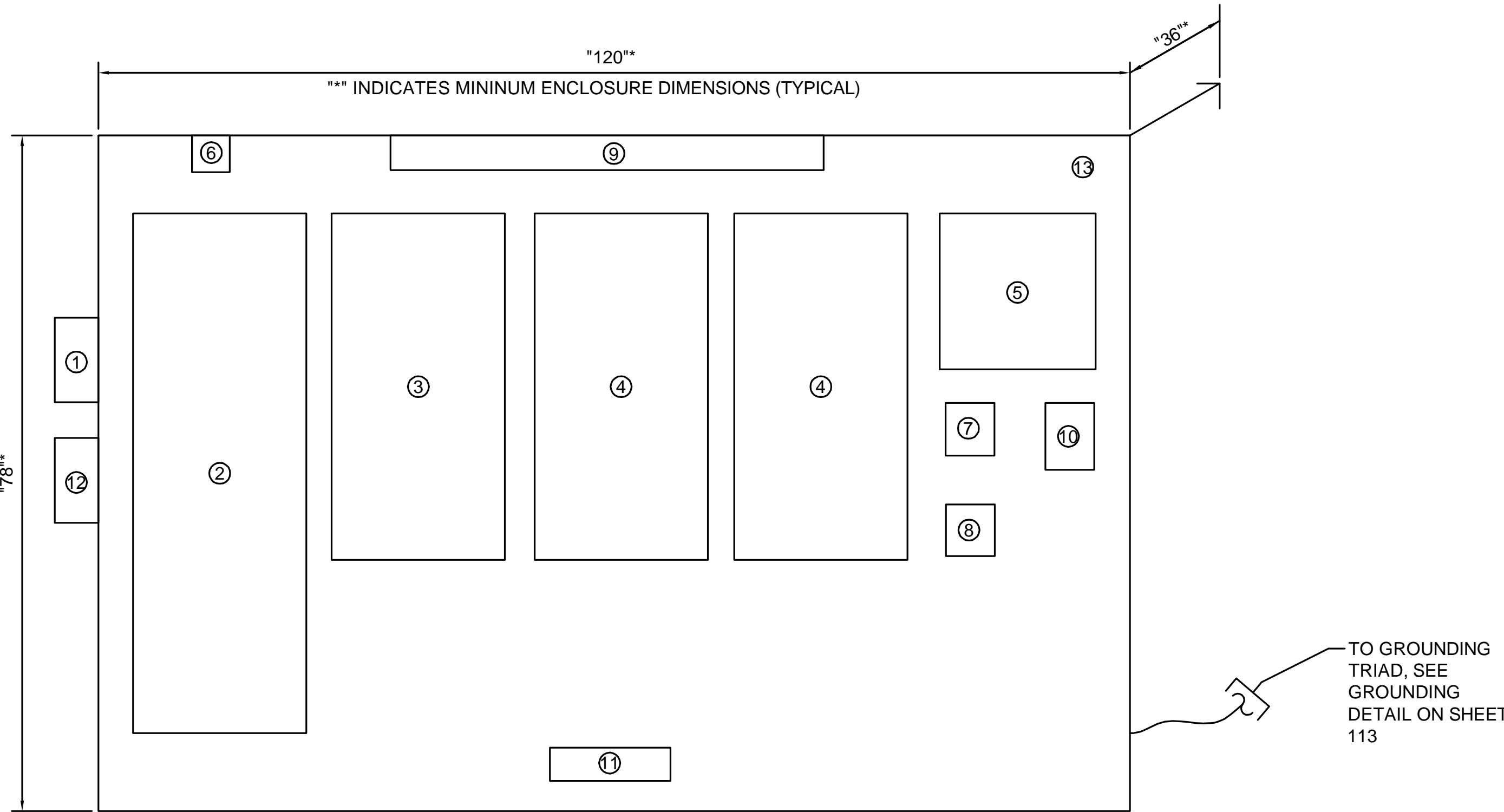
NOTES:

- #8 WIRE SHOULD BE BUTT SPLICED TO THE #4'S OR #3'S WHEN WIRING TO THE CIRCUIT BREAKERS.
- #10 WIRE SHOULD BE BUTT SPLICED TO THE #4'S OR #3'S WHEN WIRING TO POLE FIXTURES AND ADDITIONAL LOADS FOR FINAL CONNECTIONS.
- COORDINATE UTILITY CONNECTION AND REQUIREMENTS WITH THE ELECTRICAL UTILITY (NSTAR).

CHELSEA SILVER LINE GATEWAY			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	102	346
PROJECT FILE NO.		604428	
SINGLE LINE DIAGRAM			



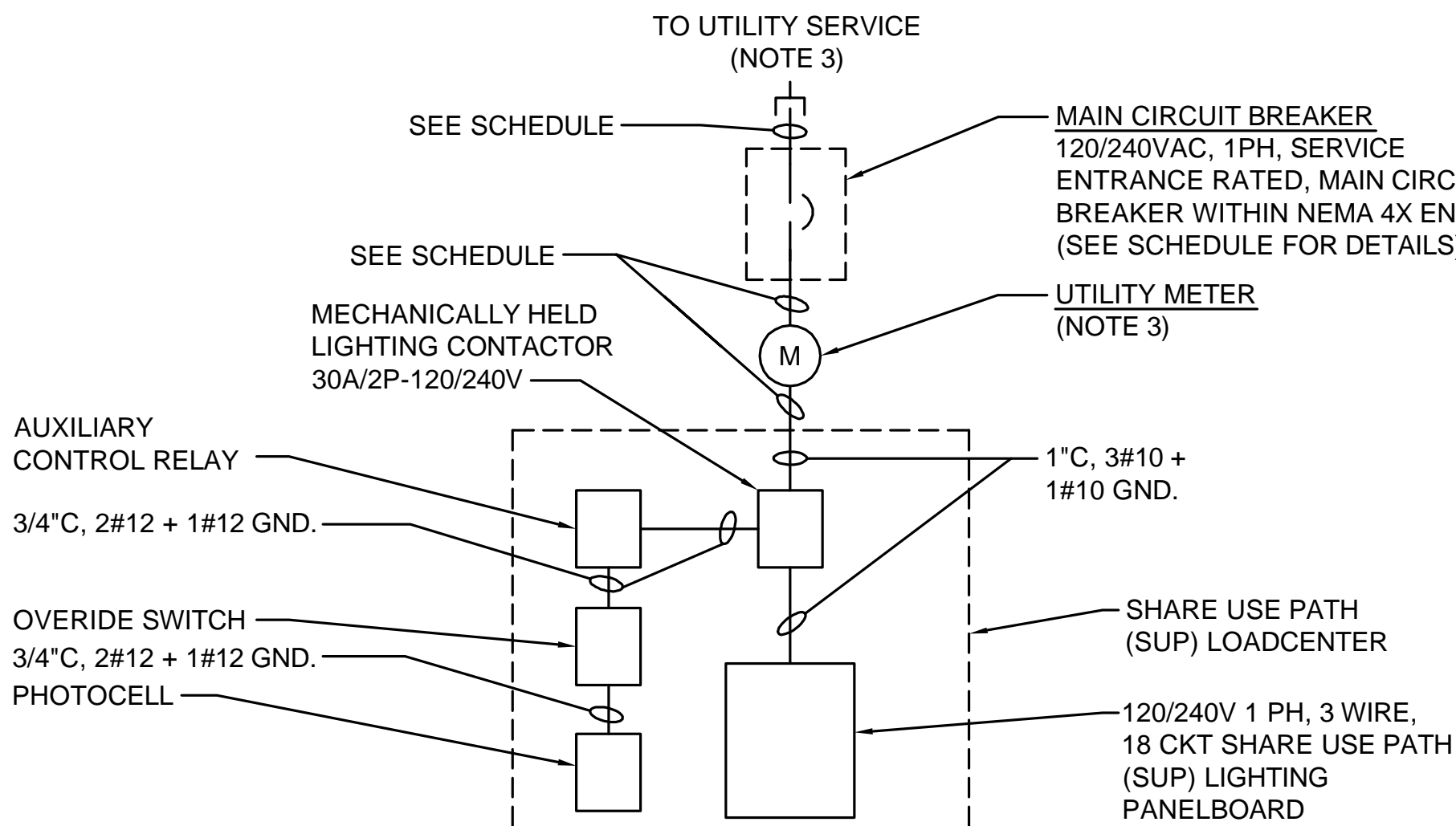
LOADCENTER #1 ONE-LINE DIAGRAM  
N.T.S.  
(LOADCENTER #2, 3 & 4 SIMILAR, SEE SCHEDULE BELOW FOR DETAILS)



TYPICAL LOADCENTER LAYOUT  
N.T.S.

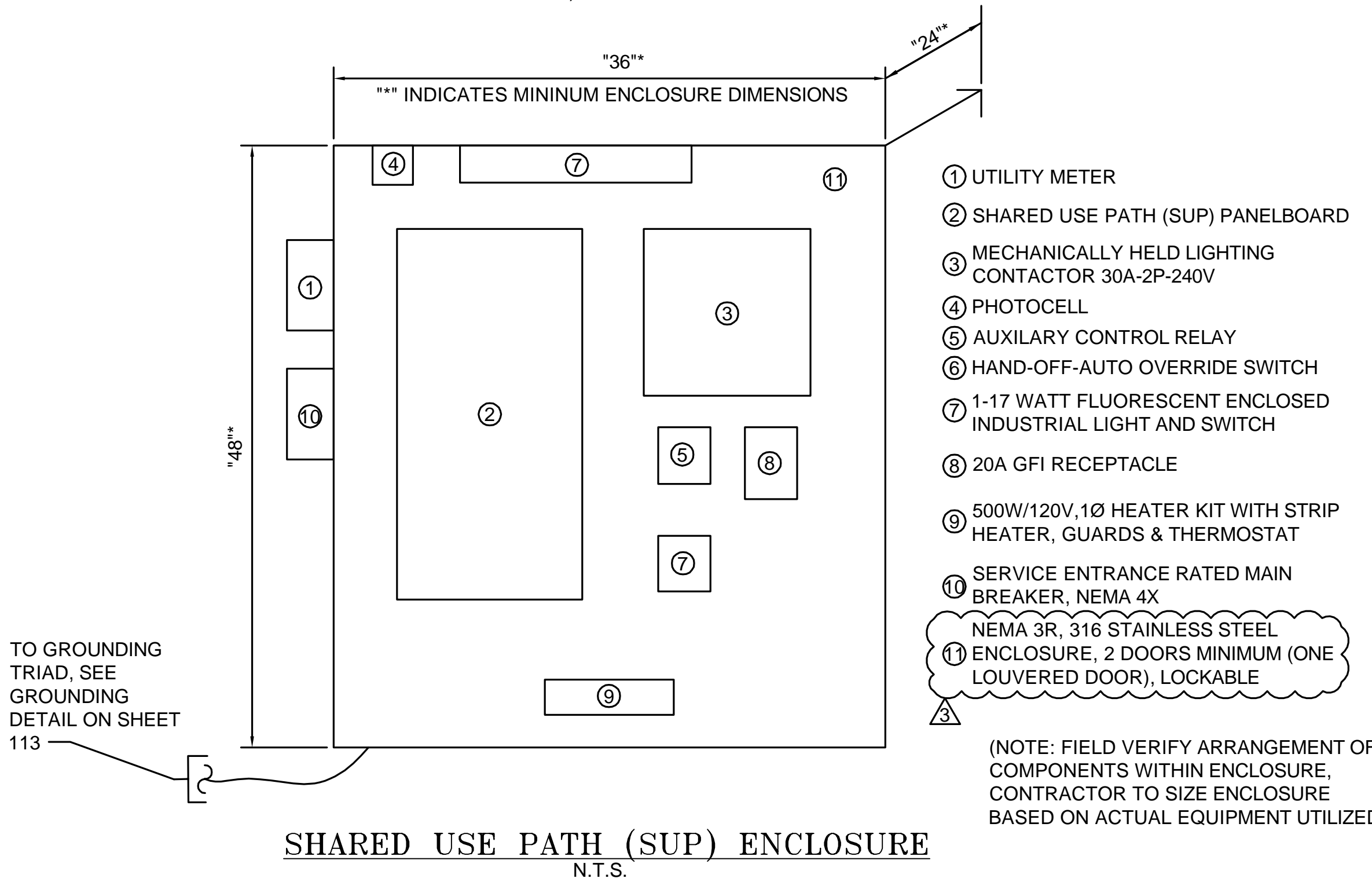
- 1 UTILITY METER
- 2 MAIN PANELBOARD
- 3 ROADWAY LIGHTING PANELBOARD
- 4 PLATFORM PANELBOARD
- 5 MECHANICALLY HELD LIGHTING CONTACTOR 60A-2P-240V
- 6 PHOTOCELL
- 7 AUXILIARY CONTROL RELAY
- 8 HAND-OFF-AUTO OVERRIDE SWITCH
- 9 2-32 WATT FLUORESCENT ENCLOSED INDUSTRIAL LIGHT AND SWITCH
- 10 20A GFI RECEPTACLE
- 11 500W/120V, 1Ø HEATER KIT WITH STRIP HEATER, GUARDS & THERMOSTAT
- 12 SERVICE ENTRANCE RATED MAIN BREAKER, NEMA 4X
- 13 NEMA 3R, 316 STAINLESS STEEL ENCLOSURE, 2 DOORS MINIMUM (ONE LOUVERED DOOR), LOCKABLE

(NOTE: FIELD VERIFY ARRANGEMENT OF COMPONENTS WITHIN ENCLOSURE, CONTRACTOR TO SIZE ENCLOSURE BASED ON ACTUAL EQUIPMENT UTILIZED)



SHARE USE PATH (SUP) ONE-LINE DIAGRAM  
N.T.S.

LOADCENTER SCHEDULE											
LOADCENTER #	LOCATION	MAIN PANELBOARD	ROADWAY LIGHTING PANELBOARD	PLATFORM PANELBOARDS (QTY 2)	PREFAB INSPECTOR BOOTH PANELBOARD	COMFORT STATION PANELBOARD	COMMUNICATIONS ENCLOSURE PANELBOARD	MAIN CIRCUIT BREAKER SIZE	MAIN PANELBOARD FRAME SIZE	MAIN PANELBOARD BREAKER SIZE	SERVICE CONDUIT AND CONDUCTORS (UTILITY POLE TO LOAD CENTER)
1	NEAR EVERETT AVENUE STA. 23.5 APPROX.	X	X	X	X	X	X	600AT	600AT	500AT	2-3"C, 3-250KCM, 1-2AWG (G) 2-3"C, SPARE
2	ARLINGTON STREET STA. 41.25 APPROX.	X	X	X			X	400AT	400AT	400AT	2-3"C, 3-3/0AWG, 1-2AWG (G) 2-3"C, SPARE
3	HIGHLAND STREET STA. 56.83 APPROX.	X	X	X			X	400AT	400AT	400AT	2-3"C, 3-3/0AWG, 1-2AWG (G) 2-3"C, SPARE
4	EASTERN AVENUE STA. 81.38 APPROX.	X	X	X			X	400AT	400AT	400AT	2-3"C, 3-3/0AWG, 1-2AWG (G) 2-3"C, SPARE
SHARED USE PATH (SUP)	HIGHLAND STREET STA. 57.18 APPROX.	X						30AT	30AT	30AT	1-2"C, 3-1AWG, 1-8AWG (G) 1-2"C, SPARE



SHARED USE PATH (SUP) ENCLOSURE  
N.T.S.

(NOTE: FIELD VERIFY ARRANGEMENT OF COMPONENTS WITHIN ENCLOSURE, CONTRACTOR TO SIZE ENCLOSURE BASED ON ACTUAL EQUIPMENT UTILIZED)